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AMERICAN

SURVIVAL

DECEMBER 1986 VOL. 8 NO. 12
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GUIDE

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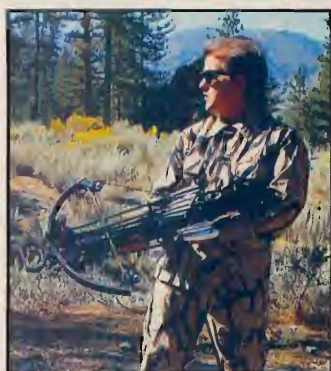
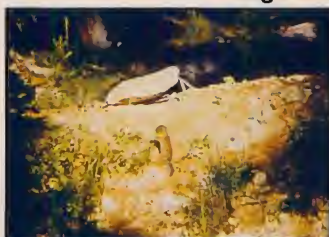
COVER:

Ruger's Mark II Bull Barrel target pistols in blue or stainless steel are outstanding .22s to take along on a trip to the wilds. They are well made, reliable and accurate firearms for plinking, target practice, hunting or other uses. See page 16 (Photo by Jim Benson). Inset: Executive Security International trainees learn hand-to-hand combat techniques (Courtesy of ESI)

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Nuclear free zones declared unconstitutional, foreign recipients of donated American organs, 'nuclear risk reduction centers,' Air Force's Ground Wave Emergency Network, radon gas threat . . .

BACK in the May 1986 edition of *American Survival Guide*, Survival Line reported that the "nuclear free zone" movement, a pet project of the disarmament lobby, was still active and promoting its cause.

A new ruling by a Federal District Court judge in New Jersey has resulted in what might be the beginning of the end for the "nuclear free zone" movement. The judge, John W. Bissell, ruled that an ordinance declaring Union County, New Jersey, a nuclear free zone was an "unconstitutional and unenforceable infringement of Federal powers to regulate the nuclear industry."

It is still unclear at this time what effect this ruling might have on the 117 other U.S. communities which have declared themselves nuclear free zones. Those involved in the movement however, indicate that the ruling is a major blow to their efforts.

Organ Donors, Foreign Recipients—If you are one of the millions of Americans who carry organ donor cards you might be amazed at the results of a recent federal study. The study indicates that foreigners are frequently put ahead of Americans on the waiting lists for organ transplants in U.S. hospitals. The study mentions a number of reasons for the preference given to foreign patients. Among them, foreign citizens have frequently not undergone treatments that are routinely done in the U.S. which have the effect of sensitizing the body to foreign tissue. Foreign patients therefore have less of a chance of rejecting the transplanted organ. Some U.S. doctors have also asserted that it is possible for rich foreigners to in effect buy their way to the top of the list.

The study noted that for kidney transplants done in one hospital in the metropolitan Washington, D.C., area, the typical American patient using Medicare coverage waited an average of 41 weeks for his transplant, while a typical foreign national patient waited only 16 weeks.

The study concluded by recommending the introduction of an Americans-first policy for transplants done in the U.S.

Preventing Accidental Nuclear War—The U.S. and the Soviet Union have begun talks on the establishment of "nuclear risk reduction centers" to be built in Washington, D.C., and Moscow. Planning calls for

the centers to be separately staffed by U.S. and Soviet officials. The main job of the risk reduction centers would be to furnish information, particularly in times of crisis, to decision makers on both sides, and thus hopefully reduce the chance of a miscalculation leading to a nuclear strike.

If Deterrence Fails—The Air Force has gotten the go-ahead from a federal court to continue construction of its Ground Wave Emergency Network (GWEN). The GWEN system is designed to provide the Air Force with a means of communications with its bombers and missile silos during a nuclear attack. The network is designed to be resistant to the electromagnetic pulse, effects generated by exploding nuclear weapons.

The system uses 300-foot-high transmitter towers placed on 11-acre underground copper screen grids, to help defeat the effects of EMP. So far 30 of the planned 126 GWEN radio tower stations have been built.

A campaign to halt construction of the system has been waged by disarmament and anti-nuclear groups throughout the country, but so far their efforts have met with little success.

Invisible Threat—It kills between 5,000 and 20,000 people in the U.S. each year by inducing fatal lung cancers. It is estimated to be present in 8 million homes across the country. It is detectable only through the use of special equipment.

This threat to the health of Americans is radon gas. Radon is an odorless byproduct of the decay of uranium deposits found in many types of rocks. It enters homes by seeping through basements, foundation cracks, or through pipes. When tapped in houses and concentrated, radon gas causes lung cancer.

Currently the only solution to the radon problem is sealing the cracks and spaces in the house through which the gas enters. Even then, installation of expensive ventilation equipment may be necessary.

Commercially available radon detectors costing between \$10 and \$50 are available to the homeowner who is concerned about the radon threat. These devices collect samples of the atmosphere in the home over a period of time and are then sent to a laboratory which analyzes them, and returns a report to the homeowner. ●

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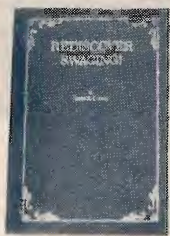
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TO THE POINT



What if the victims of terrorism fought back?

IN reflecting on the recent wave of terrorist attacks on Americans and others in Pakistan, Turkey, France and elsewhere, I couldn't help but think about the horrible fear and suffering of the victims of those attacks.

How awful to be trapped in a building or on a plane when a bomb goes off nearby or the terrorists are throwing grenades and spraying their automatic weapons.

By now, when such attacks occur, the victims know that the terrorists' chief concern is killing and maiming as many of their victims as possible before the terrorists themselves die, are captured or escape to kill again.

While the Western allies have stepped up their efforts to combat and thwart terrorism, no nation can guarantee its citizens' safety from attack.

So, the citizens of Western countries, especially Western Europe, and travelers there and in other regions of the world, can expect terrorist attacks to continue in the foreseeable future.

I'm all for the strongest and best security measures being taken at airports, government and defense industry buildings and property, etc. But ultimately these measures alone will not insure security. And, to a certain extent, travelers, diplomatic personnel, business executives and others will remain vulnerable to terrorism.

In thinking over all this, it occurred to me that it might be time to consider what some people will undoubtedly see as a drastic step—arming potential victims so that they can help defend themselves.

Imagine another situation like the Pan American Airways hijacking in Pakistan. That event ended tragically when, as an emergency generator ran out of fuel and the interior lights dimmed, the terrorists, believing they were about to be stormed by Pakistani security forces, began executing their victims en masse with grenades and gunfire, killing or wounding more than 100 before security forces put an end to the madness and captured the hijackers.

But what if things had gone differently?

What if, when the terrorists suddenly arrived on the scene and began shooting

their way onto the airliner at the Karachi Airport, passengers and crew members who were armed and trained, opened up with their own automatic weapons on the terrorists?

There would have been bloodshed, to be sure, but would more than 100 of the passengers have been slain or injured in the incident?

Wouldn't it have been better to have ended this awful scenario right there on the tarmac outside the plane rather than have what actually occurred happen, in which the four terrorists shot their way onto the plane and took it over?

I, for one, would definitely like to have seen at least some of those passengers and crew of that Pan Am flight armed and trained to use those arms against the attacking terrorists.

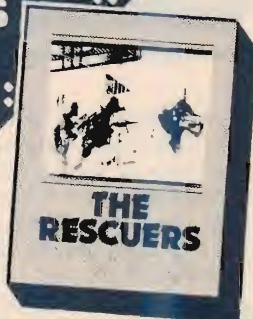
Too many of us here in the Western world view ourselves as too civilized to even consider such a notion, I'm sure. But so long as we are afraid or simply refuse to fight terrorists on their level, with their tactics and techniques, we will remain more vulnerable to them.

Now of course, allowing airline travelers to carry arms and ammunition aboard airliners, for example, has its risks. What's to stop terrorists from slipping aboard an airliner armed as regular passengers?

I'm inclined to think security systems could be worked out—including identity checks and certification to carry weapons—that could minimize such risks. After all, not *everyone* should or would be allowed to bring arms aboard an airliner. There would definitely have to be restrictions and regulations imposed. Yet I believe such systems could be established and could be effective.

I don't mean to discount the risks, the dangers of such a policy. But the alternative, it seems to me—at least in the immediate future—is more and more innocent victims being slaughtered like sheep by their fanatical attackers, terrorists ready and willing to die for their causes, and determined to take with them as many victims as possible—*Jim Benson*.

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THE RESCUERS: THE WORLD'S TOP ANTI-TERRORIST UNITS

by Leroy Thompson

Planes hijacked. Embassies taken over by force. Children held hostage. No one—and no country—is immune to terrorism anymore. And that's where hostage rescue units (HRUs) come in. In **The Rescuers**—the FIRST and ONLY book on HRUs—the units of over fifty countries are detailed, as are their training, operations, weapons and equipment. Leroy Thompson, having worked with hostage rescue, counterinsurgency and VIP protection teams in more than a dozen countries, includes a no-holds-barred rating of units. Five classic examples of actual rescues bring to life a unit's anti-terrorist tactics and planning. Photos of units—many of which have never been released—are included. Well-known HRUs, such as Germany's GSG-9, Britain's Special Air Service, France's GIGN and the U.S. Delta are covered, as are the lesser-known units of Bahrain, Colombia, Malaysia and other nations. 5 1/2 x 8 1/2, hardcover, photos, glossary, index, 216 pp. **\$17.95**



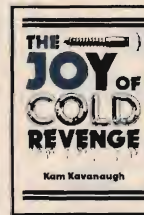
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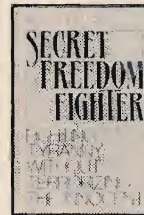
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In response to requests for more on trapping the most deadly and dangerous game of all, Ragnar Benson, who brought you **Mantrapping**, tells how to rig more traps without explosives or other accoutrements of war. The do's and don'ts for a successful mantrap are included, as are urban traps designed to make your victim's life miserable. 5 1/2 x 8 1/2, softcover, illus., photos, 120 pp. **\$10.00**



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BY ANONYMOUS
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by Jefferson Mack
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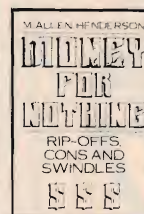
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And A Few Others That Are Damn Good, Too
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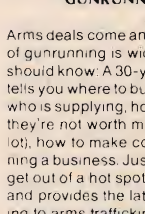
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Rip-offs, Cons and Swindles
by M. Allen Henderson
Besieged as we are by the rip-off artist at every turn, how can we hope to avoid his so-called deals? Taken from the news media, the stories here—some amusing, some shocking—show the threads that run through every con. These scams have all befallen someone. Now see to it that they don't happen to you. 5 1/2 x 8 1/2, hardcover, 200 pp. **\$14.95**



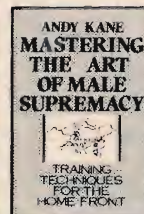
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MAIL CALL

Doctor's Diet Storage Life

The article "Two-Week Day Pack" by Hal Gordon in the August 1986 issue seems to offer a compact core ration that would serve well in an evacuation scenario by combining portability with capacity for two or more weeks. Since we maintain most of our bail-out supplies packed and ready to go at a moment's notice, it would be helpful if Mr. Gordon would give us some information on the storage life of the ingredients of the Doctor's Diet.

T.J. MacMorran
Austin, Texas

Officials at Neo-Life (25000 Industrial Blvd., Hayward, CA 94545; (415) 786-3401), the makers of the Doctor's Diet products, tell us that they guarantee the potency and freshness of Doctor's Diet foods for one year provided these products are kept sealed in their original containers and not exposed to heat, but they add that these foods should last at least three years if kept unopened and stored in a cool, dry place.

Preparedness

After buying my first copy of *ASG* off the rack at a 7-11 store in February 1985, I quickly realized how unprepared I and my family would be in the event of even a mild natural disaster. A spot check of our basic supplies revealed the following: one flashlight, one portable radio, no spare batteries for either, no candles, no oil-burning lamps, not even any matches! Our pantry had enough canned goods for a family of three to last about four days. Ninety percent of our food on hand was in the refrigerator. Being born and raised in Houston, Texas, I was the classic "city slicker" with absolutely no knowledge of hunting, fishing, hiking, camping, weapons, or food storage. Thanks to your excellent magazine, all of that has changed. Here's hoping my letter will give some other folks out there food for thought. A few basic preparations coupled with the learning of rudimentary skills in the field probably won't separate the men from the boys. However, it could very well separate those who survive from those who don't.

Gary Reno
Pasadena, Texas

We agree with you, Gary. Thank you for your thoughts.

B3-1 Magnum Air Rifle

I've been wanting a pellet rifle for more than a year but could not bring myself to pay more for a toy than for a real rifle. Your article "The People's Pellet Rifles" in your April 1986 issue sparked a lot of inter-

est. I ordered my B3-1 Magnum from Midwest Sport Distributors around the middle of August. A few days later I received my money back with a note saying the rifle has been discontinued. They also said there was a catalog enclosed but there was none. Where can I get one of these rifles at these good prices? Does anybody else sell them or are they no longer coming into the United States?

Glenn Roberts
Elk Grove, California

Midwest Sport Distributors, Inc., Dept. ASG, Lucky St., Box 129K, Fayette, MO 65248, informs us that the supply of these rifles from mainland China was suddenly exhausted shortly before you ordered your B3-1 Magnum, which, by the way, is no toy. This was unfortunately too late to pull their ads for the rifles from our September and October issues. Remember, we are working on issues two to three months before they appear on the newsstands. Apparently the Chinese have had some difficulty getting the wood needed to make the air rifle stocks. At any rate, Midwest, the only U.S. distributor we know of, is hoping to acquire more of the pellet rifles soon, possibly by the time this issue is being sold on newsstands. So check back with Midwest about now, and ask them for their catalog while you're at it.

Caches, Gasogenes

In your July 1986 issue in the article "Cache" the author recommends the use of wooden dowels for the assembly of cache containers because nails would be prone to rusting. Stainless steel nails are available and are virtually indestructible. They are expensive, but this is insignificant when your life may depend on the integrity of a cache. In one of your future editions, could you publish an article on the construction and operation of gasogenes, used to produce fuel gas from the controlled combustion of coal or wood? I know very little about them except that they were used in Nazi-occupied Europe and other places where gasoline was either rationed or unavailable. Also, how about an article on making cement and lime, two basic materials which would be crucial for reconstruction following a natural or man-made disaster.

Name withheld
Ontario, Canada

We were unaware of gasogenes until your letter. We'll look into the matter and see about doing an article on them. We'll do the same about your suggestion for cement and lime making. We've been intending to do such an article anyway. We appreciate your remarks. ●



INSTA-PUMP
Rechargeable water pump. Pumps up to 55 gallons on a single charge. Just set it down in water and turn it on. Cordless, completely submersible and perfect for pumping water from: a stream for drinking or showers, a waterlogged boat, clogged sink, trench, foxhole, or from wherever you don't want water. Ideal for outdoorsmen and the military. Includes 5 ft. of tubing, ni-cad batteries and charging unit. High impact, acid resistant case with carrying strap. Only 6" tall. Weighs 11 ozs. ASG05-1707 \$39.95



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ASG04-1519 \$9.99
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Light for warm weather; full cut to wear over clothing in cold weather. Urethane coated ripstop nylon. Woodland camo. Easy to pack; dries rapidly. Jacket has snap front closure, drawstring hood, elastic cuffs, and breast pocket with rainflap. Trousers have no-roll elastic waistband and snap-adjustable leg cuffs. 5x7½x2" folded. Fits BDU pockets. Sizes: S-M-L-XL-XXL (regular lengths). Made in the U.S.A.
ASG04-1024 Jacket \$29.88
ASG04-1025 Trousers \$19.88



M123 SCALDER CANTEEN HEATER

Designed for survival situations where soldiers or outdoorsmen need about one quart of heated water and cost is not the issue. Raise the temperature of the water in your full canteen as much as 158°F (70°C). This Scalding Canteen Heater will raise it in about one minute and hold it there for an extended period of time. Total heat output is about 56,000 calories. Chemically operated, non-toxic, silent, smokeless, and flashless. Fits the official Israeli 28 oz. plastic canteen and other nations' canteens with 1½" outside diameter threaded necks. It will not fit the U.S. Army canteen. For extreme emergencies and not reusable, so use only when absolutely necessary. Do not leave where children can handle and pull the grenade-like pin. Can cause serious burns if used other than directed. Measures 1x7¾". Each weighs 11½ ozs. Made in Israel.

ASG05-1040 M123 Scalding Canteen Heater \$49.95
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ASG05-0838 Black \$24.95



COMMANDO PUP

This plush and cuddly puppy has joined the Army and is waving good-bye as he goes off to become a commando. He's beige and brown, and is outfitted in a Woodland camouflage uniform and cap. Jacket has pockets, epaulets and snaps for easy on-and-off. Pants snap in back with a hole for his tail. He stands a proud 12 inches tall. ASG07-2898 \$14.95

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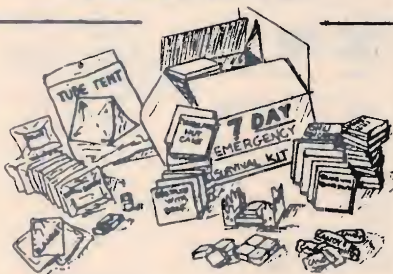


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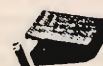
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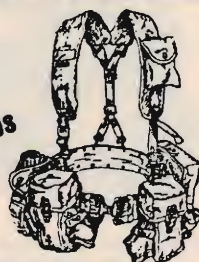
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1986 OVERRUNS



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We find we have 300 cases more cakes than we want to stock at this time. These are all 1985 MRE cakes and come packed 72 individual cakes to a case. We are offering three cases (216 cakes) of these cakes at the price you would expect to pay for two cases. You get a case each of Pineapple Nut, Maple Nut and Cherry Nut. Sold in stores for about \$140 a case and on special in our newsletters for \$64 a case. #R580

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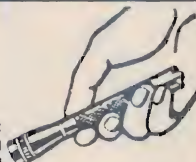
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Slightly Larger Than Standard D Cells**

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For About The Price Of Used Ones**

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3 for \$ 24.00 + 5.25 S&H
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Carrying Case - Save 75%**

In rummaging around a supplier's stock we found just 222 of one of the finest ammo cases we have seen. Made of the same material as our expensive "Pelican" cases but much thicker, these cans were made to ship explosive 25mm cannon projectiles. To test the sturdiness we ran one of our trucks over a case without any signs of damage. The cases are 15" x 14" x 6" outside and about an inch smaller all around inside. They open on two ends. Neoprene gaskets make sure they are air and water tight. Has sturdy carrying handles on both ends and is made to stack well. Limited to the 222 cases. #3139

Ammo Can Carrying Case**\$ 17.50 + 5.00 S&H****Special 3 Cases****\$ 47.50 ppd. 48 states****Potassium Iodide Tablets**

There is no medicine that will effectively prevent nuclear radiation from damaging the human body cells that they strike. However, a salt of the elements potassium and iodine, taken orally even in very small quantities one half hour to one day before radioactive iodines are swallowed or inhaled, prevents about 99% of the damage to the thyroid gland that otherwise would result. Each set has 98 high quality tablets packaged in 7 14-tablet bottles for easy use by family members. #1525

**\$ 25.00 + 1.75 S&H
2 for \$ 47.50 ppd.****Heavy Duty Hoist
AVAILABLE AGAIN**

A few years ago we carried an excellent heavy duty hoist. Thousands were sold until we were unable to obtain any more. Once again we've found a supply. A 2000 pound test hoist with 65 feet of polypropylene rope, heavy-duty steel pulleys and hardware with a 7 to 1 lifting ratio, all assembled and ready to use. An absolute must for all outdoorsmen and a price you can't pass up. Great for moving fallen trees, lifting big game, and much, much more. #9915

**Special \$ 8.95 + 1.50 S&H
2 Hoists \$ 18.00 ppd. 48 states****Israeli
Gas Mask Special
CBW EFFECTIVE**

We decided to put together a package for the highly effective new Israeli Civilian Gas Masks that we have been offering for the past 15 months. We wanted something that was easy to pack and easy to carry. So we have taken a mask which comes with one canister and added a second canister and put them in a heavy-duty used US mask bag. The bag features three small outside pockets that can hold other items such as water tablets, matches, knife, etc. It also has a nice carrying strap that is made so it will not break easily. The bag secures the mask and canisters with two easy-to-open spring snaps.

The Israeli Masks are not only new (meaning they have not been used) but also are of recent manufacture. Made for the Israeli population to protect against gas attacks, they will handle all common battlefield gases including CBW gases. One important feature is that the filter can be changed in seconds without removing the mask. The canisters have no listed limit to shelf life. In talking to those who seem to know, if the protecting seals are not removed they should store indefinitely. Also the filters are readily available at this time. #C/0569

Bag, Mask and 2 Canisters**\$ 29.95 + 3.00 S&H****2 Sets \$ 60.00 ppd.****Bag Alone #6479 \$ 6.95 ppd.****Extra Canisters #6477 \$ 9.50 ppd.****Mask with 1 Canister****#6476 \$ 19.50 ppd.****U.S. Military
Water Purification Tablets**

These high-quality iodine based water purification tablets are available because of a surplus contract. They are sealed in bottles of 50 tablets. Enough to purify 50 quarts of suspect water. U.S. made and packaged for long-term storage. #1922

**10 Bottles \$ 14.50 ppd. 48 states
20 Bottles \$ 25.00 ppd. 48 states
Case of 100 Bottles \$ 79.00 ppd.****Camo
Crossbow Case**

Made of heavy duty nylon with foam padding and soft lining inside. Heavy double nylon stitching around entire case. Reinforced carry handle and shoulder strap. Fits all standard and large crossbows when they are fully assembled. Two large pockets outside for cocking levers, extra prods and bolts. Measures 44" x 33". Woodland camo in color. #6531

**regular \$ 39.95 + 3.00 S&H
Special \$ 29.95 + 3.00 S&H
2 Cases \$ 60.00 ppd. 48 states**Survival, Inc. (SI)
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Cobra:

Command Call

Hands-free 2-way communicator . . .

By Bob Clark



Compact and totally self contained, the Cobra "Command Call" HC-200 offers freedom to the outdoorsman not possible without this type communication. Lightweight and completely adjustable headband supports boom microphone, earpiece and antenna. Antenna can be released to vertical for more distance. Permanent cord leads to receiver.



Receiver houses 9-volt battery and switching. Volume for transmitting and reception is possible while third switch allows selection of hands-free (VOX) or push-button (PTT) transmission. Receiver is equipped with removable belt clip. The "Command Call" is a perfect solution to your close in, up to 1/2-mile, 2 way communication problems.

THE practicable applications for a hands-free 2-way communication system in survival, hunting, camping and many everyday situations are endless. The ability to privately and silently converse with someone out of sight or at a distance is priceless. In many cases such capability could in fact make the difference between life and death.

For years the Electronics group at Dynascan in Chicago has been a pioneer in the design and production of citizens band and other communication systems. Recognizing the many applications of a compact 2-way communicator they recently introduced the Cobra "Command Call" FM 2-way transceiver.

The Command Call was developed with a number of unique features which make it perfect for many types of sporting and survival activities. Of special note is the portable, hands-free operation capability. In the voice-activated (VOX) mode the transmitter is automatically activated by the sound of your voice. Stop talking and you go to the receive mode. If you like you can set the unit to the PTT position and transmission is by push button. In either mode, Command Call offers noise-free communication over a nominal range of 400 meters (1/4) mile, and a maximum range of 800 meters.

The Command Call also offers individual frequency ranges. Units can be ordered in channel "A" or channel "E" for further privacy. Two or more units are able to communicate with each other as long as they are on the same channel. The two channels do not mix.

Completely portable and self contained the HC-200 Command Call carries the earphone and electret condenser boom microphone on a lightweight, adjustable headband. In addition the headband secures the antenna which can be coiled to the band where clearance is a problem or extended vertically in the open for additional range.

Each receiver is totally self contained incorporating its 9-volt power supply. Compact, the body which clips easily to your belt measures only 4 9/16 inches high by 2 1/2 inches wide and 15/16 inches deep. A Push-to-talk switch, volume hi/med/low switch and MIC hi/med/low switch are mounted conveniently on the face of each unit.

The Command Call certainly has uncountable applications to the active individual and offers couples and groups freedom not possible without this type communication. With all it has to offer the HC-200 is well worth the \$44.95 price tag and should be considered for addition to your survival cache. For information on the dealer in your area call (800) 262-7222.

Get Loaded Easy

with Ram-Line's AUTOLOADER

For Ruger 10/22* and 77/22* (Intended for Banana Mags)

**1.
Dump
50
Rounds**



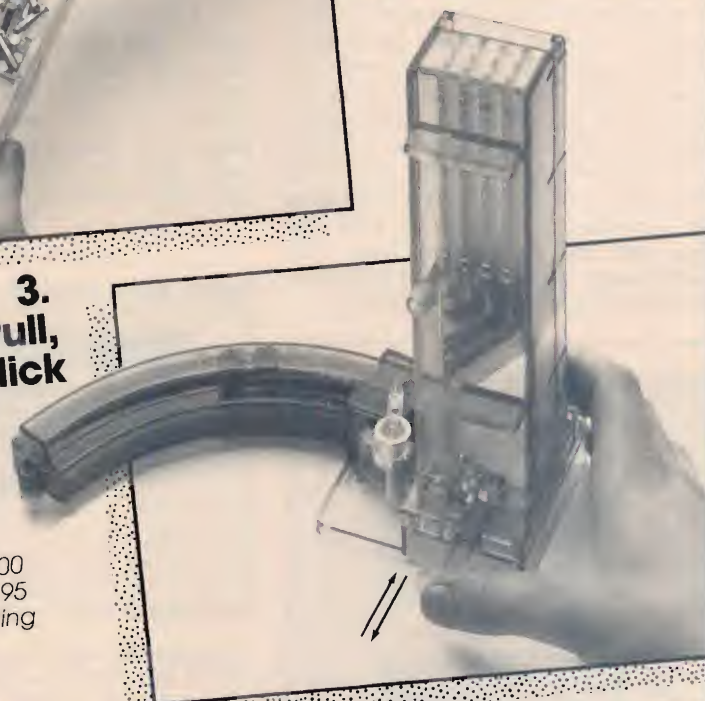
Loads 50 rounds
in seconds!

**2.
Shake,
Rattle
& Roll**

Rims automatically
align into rows.



**3.
Push-Pull,
Click-Click
All Full!**



Item #ALR4300
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Suite 8L126, 406 Violet St., Golden, CO 80401

Extended Snap Mag Release SRT1130 for Ruger 10/22* with proof of purchase (and UPC code) of any RAM-LINE Autoloader or 10/22* Mag. Send \$1.00 for catalog. Limited Offer

FREE

NEW PRODUCTS

Basic Deer Hunting



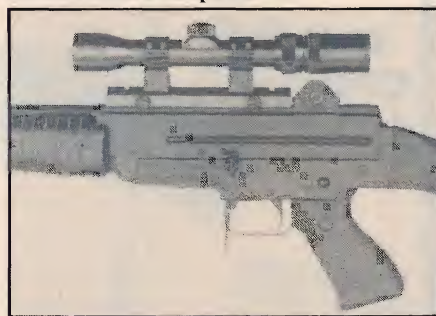
R.V. and Associates has announced the release of its newest video production, "BASIC DEER HUNTING." Considered a must for the serious deer hunter, the program is hosted by Ivan Marx, a well known professional tracker and hunter with more than 40 years of experience in hunting wildlife, including bear. The 30-minute comprehensive program was designed to show the novice hunter the fine art of deer hunting, as well as to refresh the memory of the experienced hunter. Among the many subjects covered in the program are tracking the deer, selecting a deer stand, disguising techniques, dressing the deer, including skinning and many more. The video tape costs \$42.95, including shipping and handling, is available in VHS and Beta and can be ordered from: Roy Vanderlelie, Dept. ASG, HC01-147A1, 29 Palms, CA 92277, (619) 362-5172.

World's Smallest Pistol



The Berloque precision pistol from Austria is being imported by Kenneth G. Merkel Marketing and Sales of Locust Valley, New York. Classified as a replica of an antique pistol by the federal Bureau of Alcohol, Tobacco and Firearms, the Berloque may indeed be "the world's smallest pistol." It is certainly the smallest pistol the staff of this magazine has seen, and it's definitely the smallest flaregun the staff has seen or tested. But it works like a charm and fits on a key chain. That's right, it's a *flaregun* as well as a noisy blank-firing gun. It comes in a handsome wood case as a pistol "signal set" with key ring, one-piece flare adapter, 9 colored flare cartridges (red, yellow, green and white), ejector rod and 12 2mm blank cartridges. The suggested retail price is \$40 plus \$2 shipping. This little nickel-plated gun is precision made and functions reliably. Additional flares and cartridges are also available from Kenneth Merkel. On testing the Berloque the ASG staff found it to be simple to operate and dependable. All flares and cartridges fired functioned appropriately. When fired with only the cartridges, a loud bang is heard in enclosed areas. The flares, which must be fired with the cartridges, shoot 25 meters into the air and provide very bright illumination with considerable smoke. Although it looks like a toy, this little gun could be an effective signalling device for a stranded motorist or hiker. For orders or more information, contact Kenneth G. Merkel Marketing and Sales, Dept. ASG, P.O. Box 562, Locust Valley, NY 11560; (516) 671-1436.

Beretta AR 70 Scope Mount



B-Square has a new mount for the Beretta AR 70 auto rifle. The base simply clamps onto the gun's dovetail with two knobs. The mount is easy on and off without zero change. B-Square's mount has a standard dovetail and comes with see-through rings so you can use the gun's sights with scope installed. Only \$49.95, complete with rings, at dealers. For details, write or call B-Square Company, Dept. ASG, P.O. Box 11281, Ft. Worth, TX 76109; (817) 923-0964.

Compact Archery System



In order to fully utilize the advantages of the Folding Arrow, developed by The Frank Tehan Corporation of Berkeley, California, and Easton Aluminum of Salt Lake City, Utah, The Frank Tehan Corporation, in collaboration with Martin Archery, Inc., of Walla Walla, Washington, has developed a complete compact archery system. Externally, the Folding Arrow is identical to a conventional one-piece arrow. Internally, the Folding Arrow has a folding assembly made up of a tubular insert, an elastic cord, and a retaining clip. The shafts are top-of-the-line 2216 XX75 aluminum shafts from Easton. The internal insert is also made by Easton. Tests show the Folding Arrow will flex less during shooting than the same size one-piece arrow. The increased stiffness can best be utilized by bows with a heavier draw weight. The basic BOWPAK compact archery system for the Folding Arrow includes a specially designed pack, eight 31¼-inch Folding Arrows, field tips, bow wrench and take-down bow by Martin Archery modified by The Frank Tehan Corporation. Assembly time for the bow is less than two minutes. Accessories, including a removable external accessory pocket, bow quiver, sights, stabilizer, flashlight and a broadhead box, are available. The pack is made of Cordura nylon fabric. It is only 18 inches long by 6 inches wide by 4 inches deep. It has a suspension system of nylon shoulder straps with quick-release molded buckles. Different sized Folding Arrows are being developed to go with the BOWPAK system. Price of the system is less than \$300. For more information, contact The Frank Tehan Corporation, Dept. ASG, 1801 Eastshore Highway, Berkeley, CA 94710; (415) 849-4887.

Solar Powered Car Battery Charger



Atlantic Solar Power, Inc. introduces the latest in car battery maintenance. The G-33 is a solar power charger, engineered to provide a daily maintenance charge on automotive-type batteries. Designed to plug into a cigarette lighter, the G-33 can help eliminate the problem of batteries falling below the recommended state of charge when vehicle is not used regularly or there is a drain on the battery when car is not in use. The G-33 is 14 by 4.75 inches and is designed to sit on the dashboard when charging and fit in the glove compartment when not in use. For information contact Atlantic Solar Power, Inc., Dept. ASG, 6455 Washington Blvd., Baltimore, MD 21227; (301) 796-8094.

Ram-Line Autoloader



Ram-Line introduces the end to troublesome "Thumbusting." The Autoloader revolutionizes rimfire plinking, making reloading "fast as lightning." Banana mags make shooting a thrill, but reloading a drag. The Autoloader puts fun in the loading. In three simple steps, the Ram-Line Autoloader eliminates Thumbust-

ing. 1) Dump in a box of ammo. 2) *Shake, Rattle*—The Autoloader automatically aligns rims. Close the lid, place magazine and loader into base and you're ready to *Roll!* 3) Push, Pull, Click, Click—50 rounds loaded in seconds. That's it! Designed for use with banana magazines fitting the Ruger 10-22 such as Ram-Line's compact 30- and 50-round magazines. Adaptors are also available for use on Charter Arms AR-7 magazines (Ram-Line's 25 round magazine). Item #ALR 4300 Autoloader is \$39.95. Item #ALR 4320 Adaptor Charter Arms AR-7 is \$9.95. For more information send \$1 for complete catalog to: Ram-Line, Inc., Dept. ASG, 406 Violet Street, Golden, CO 80401.

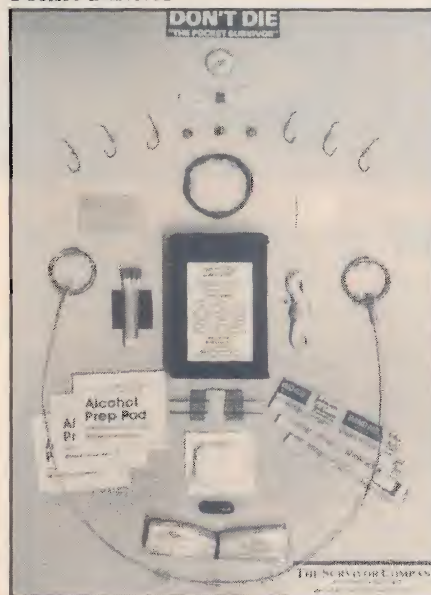
Radar Flag Unfurled



After presenting the first production model to Guy Jouas—the research ship *Calypso's* Electronics & Radio Officer, inventor David Todd has announced plans to market a newly developed radar detection device called the "Radar Flag." The American Flag, lined with anodized silver, makes power boats, sailboats, lifeboats and other non-metallic vessels "radar visible" from all directions (360 degrees) up to a distance of 8 miles, depending on weather and terrain. The Radar Flag has numerous other military and non-military applications, including target demarcation; detection and identification of specific military units, vehicles and structures; visual and radar detection of buoys, waterway construction, lobster pots and fishing paraphernalia, and diving locations. Three years of engineering and development produced the silver anodizing process that gives the flag its unique reflectivity. The

lining is made up of interwoven "rip stop nylon" to prevent tearing and fraying. The nylon is completely coated with silver so that only a fraction of the flag surface must be exposed to produce a full reflective signal. The Radar Flag is the first device of its kind to meet U.S. Coast Guard requirements for specifications of amendments to Federal Law SOLAS 74/83 (Safety of Life at Sea) that went into effect on July 1 of this year. One new requirement is that lifeboats and liferafts must carry "an efficient radar reflector." For further information, contact The Caro Group, Dept. ASG, 2430 E. Commercial Blvd., Ft. Lauderdale, FL 33308. In Florida—(305) 491-1721; toll free outside Florida—(800) 468-9616.

Pocket Survivor



"The Pocket Survivor," is a very complete and compact little kit that can be carried almost unnoticed in your pocket when hunting, hiking, scouting or in the glove compartment of your car. A person never knows when he or she might become lost or stranded and need all the contents, or maybe, just a band-aid or match. "The Pocket Survivor," is a cigarette pack sized kit, in a hinged lid metal box, waterproof sealed and contains compass, cable saw, cleaning and skinning blade, fish hooks, fish line, sinkers, snare wire, signal mirror, utility cord (210# test), needles, thread, matches, striker, adhesive bandages, anti-septic swabs, water pure tabs, quart water container and 5 gram glucose energy supplement. To order, send \$8.95 for "The Pocket Survivor" plus \$1.50 Post. & Hdlg. to "The Pocket Survivor," P.O. Box 1817-SG, Brevard, NC 28712; (704) 884-5911. ●

Sturm, Ruger & Company:

Mark II Bull Barrels

Heavy barrel versions of the famous .22 target pistol . . .

By Jim Benson



WHEN ASKED what caliber of firearm they would prefer as an all-around survival weapon if they were stranded in the wilderness, many survivalists say the .22.

The rationale for this choice is clear enough. The .22 is a useful cartridge for taking both small and larger game, including deer, in a pinch it can be used for self defense, and a great deal of cartridges can be carried without adding too much weight or bulk.

When it comes to preferred .22 survival handguns, the Ruger Standard, Mark I and now Mark II automatic pistols are the hands-down choices.

The Standard Automatic Pistol in .22 caliber was the first gun sold by Sturm, Ruger & Company, beginning in 1949. The Mark I was introduced in 1951, and, after 33 years of continuous production and more than a million pistols sold, the Mark I models were superseded by the Mark II Standard and Mark II Target models in 1982, along with a stainless version.

The original design was so successful, according to company literature, "it became the cornerstone upon which one of the most comprehensive lines of sporting firearms ever made in America was established."

The ASG staff recently were able to lay their hands on two Mark II Bull Barrel model target pistols loaned to us from Ruger for evaluation. One of the pistols is the standard blued steel model and the

other is stainless steel.

The Mark II Standard model has a 4 3/4-inch or 6-inch barrel, while the Mark II Target model has a 6 7/8-inch tapered barrel. The Mark II Bull Barrel target models have either 5 1/2-inch or 10-inch barrels and weigh the most of any Mark II pistol. The blue and stainless bull barrel models we received have 5 1/2-inch barrels and each weighs 2 pounds, 10 ounces with an empty magazine in it.

The bull barrel configuration was

developed to meet the needs of shooters desiring a greater concentration of weight at the muzzle. This reduces recoil and muzzle rise. Additionally, all that metal in the barrel doesn't heat up as fast, further enhancing accuracy in situations where many rounds are fired at a time.

Features—These pistols are 10-shot, magazine-fed, semiautomatic firearms operated by blowback (recoil). The single action is smooth, with light trigger pull, adding to the inherent accuracy of these firearms.

The front sight is a Patridge type, non-adjustable. The rear sight is click adjustable for both windage and elevation.

The magazine release latch is European style, located next to the grooved foot of the magazine base at the bottom of the grip frame.

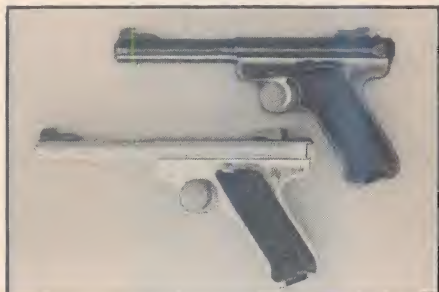
To chamber a round, a loaded magazine is inserted, the bolt ears at the rear of the receiver are gripped and the bolt is pulled back all the way and released. It strips a cartridge from the magazine and chambers it with the bolt face flush against the cartridge.

The bolt hold-open mechanism is actuated by the follower button on the left side of the magazine. When the last shot has been fired or if there is an empty magazine in the pistol, the button moves the bolt stop to hold the bolt open. If there is a loaded magazine in the gun or if there is no

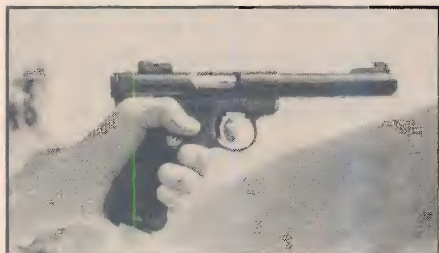


These three types of .22 ammo were fired in the guns.

magazine in the weapon, the user can hold the bolt open by retracting the bolt and pushing up manually on the bolt stop which is located on the left side of the pistol above and to the rear of the trigger. The bolt can be released in this situation by drawing back the bolt slightly and



The bolt stop thumbpiece and safety button are located on the left side of the Mark II.



The standard blue model sells for about \$60 less than the stainless steel.

pushing the bolt stop thumbpiece downward.

It is not recommended that you chamber a round by simply depressing the bolt stop thumbpiece, since the bolt is not fully rearward and may not have enough force behind it to chamber the round. The manufacturer recommends pulling the bolt fully rearward and *then* depressing the bolt stop thumbpiece.

Field stripping the Mark II is fairly easy. With the hammer uncocked (pull the trigger to make sure) and the magazine removed, use a blunt instrument to pull back the mainspring housing latch located at the rear of the grip frame, opening it like the blade of a folding pocket knife. The entire housing is then swung outward on its pivot and pulled downward, removing it from the grip frame. Pointing the muzzle up, the bolt should then drop from the receiver. A light blow on the rear of the receiver with a rubber mallet or some other blunt object will separate the barrel-receiver assembly from the grip frame.

Reassembling the pistol, however, can seem terribly difficult if the operator is not familiar with the correct procedure of reassembly. Although the owner's manual describes the process in detail, it can still seem confusing.

I spent an hour trying to reassemble the Mark II before finally completing the procedure, and even then I didn't know what it was I did right. Ram-Line, Dept. 1105-ASG, 406 Violet Street, Golden, CO 80401, which makes plastic stocks and magazines for Ruger firearms, has a free flyer it puts out explaining the exact correct process for reassembly of the Mark I or Mark II in about 30 seconds. Write to Ram-Line at the above address for the flyer, "Reassembling a Ruger Mark I or II in 60 seconds or less!"

Two key elements of proper reassembly are making sure the hammer is in full forward position after bolt insertion; and making sure the hammer strut fits into its "hammer strut home," in the mainspring housing.

Testing—In trying out these pistols, we ran several hundred rounds of various kinds of .22 LR cartridges through them with very little trouble. There were only a few jams or failures to feed and these problems were immediately cleared up with little effort. All in all, the guns functioned very well.

Accuracy is outstanding. We were able to make many hits on bottles and cans set 30 and more yards away from where we were firing. We have no doubt that the Mark II bull barrels will outperform most if not all other pistols in their class. These are great guns for hunting or target practice, and could be used for self defense, although we personally prefer larger caliber weapons for this purpose.

In our estimation, the bull barrel Mark IIs combine the best features of Ruger's famous auto pistol with bull barrel accuracy for the best all-around model of these outstanding guns.

If you are in the market for a .22 for plinking, hunting, home defense or as an addition to your survival firearms battery, you will be well served by one of these fine weapons. ●



Disassembly is easy. It's getting the Mark II back together again that can be difficult. A few secrets to know for quick reassembly are detailed in a free flyer put out by Ram-Line.

Ruger Mark II Bull Barrel Pistol: Tech Specs

Caliber22 Long Rifle
Action	Semiautomatic, blowback operated
Weight	2 pounds, 10 ounces with magazine
Length, inches	9 1/2 with 5 1/2-inch barrel
Sights Radius, inches	7 7/8 with 5 1/2-inch barrel
Capacity	10 rounds
Sights	Patridge-type front; rear click adjustable for windage, elevation
Price, suggested retail	MK-512 (5 1/2-inch barrel) \$215; MK-10 (10-inch barrel) \$215; Stainless Steel \$275
Manufacturer	Sturm, Ruger & Company, Dept. ASG, Southport, CT 06490



The front sight is a Patridge-type blade. Rear sight is click adjustable for windage and elevation.

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.45 Colt Long, .9MM
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Security Six, Speed Six, Red Hawk
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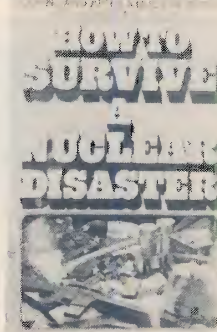
7841 Foundation Drive
Florence, Ky. 41042

BOOK REVIEWS



Modern Ballistic Armor, Clothing, Bomb
Blankets, Shields, Vehicle Protection . . .
Everything You Need To Know, by Dun-
can Long; Paladin Press, Dept. ASG, P.O.
Box 1307, Boulder, CO 80306; (303) 443-
7250; paperback, 94 pages; \$8 plus \$3
shipping and handling.

"As riots and powerful firearms have started to be encountered more frequently by the police," the author writes in this book's introduction, "police departments have started using various types of plastic armor, including ballistic helmets, shields, and vests. While these are not capable of stopping high-powered rifle bullets, they generally prove more than adequate for most street encounters. Likewise, with terrorism spreading, dignitaries and bodyguards have started using ballistic materials, often disguised as articles of clothing, to defeat bullets fired at them in surprise attacks. Terrorism has also caused armor originally developed for military vehicles (such as tanks and personnel carriers) to become popular on the civilian market in the form of armored buildings, along with 'bulletproof' glass and plastics." Long, a well known survivalist author and regular contributor to this magazine, thinks combatants may one day soon be wearing "Star Wars-style plastic armor." Chapters cover the materials used for various types of body armor down through the years, ballistic vests and other body armor, bomb suppression, armored civilian vehicles, and armored military vehicles. The appendix lists manufacturers, dealers and distributors of ballistic armor and materials. Besides being fascinating reading, this well written, well illustrated book has lots of excellent information about the subject of ballistic armor and materials. If you're interested in learning what ballistic armor will and won't do to protect you and what's available, read this book.



How To Survive A Nuclear Disaster, by
Robert C. Smith; Zebra Books, Kensing-
ton Publishing Corporation, Dept. ASG,
475 Park Avenue South, New York, NY
10016; 391 pages, paperback; \$3.95.

A nuclear power plant leaks radioactive gas into the atmosphere near your home. Are you prepared? A truck carrying nuclear wastes has an accident and contaminates an entire community. What should you do? A nuclear bomb is dropped in your area. Will you survive? "Here for the first time in paperback is everything you need to know on surviving a nuclear disaster," the publisher states. The information provided includes how to prepare and stock a shelter, weapons and supplies, how to prepare food by canning, salting, freeze drying, etc., how to protect against nerve and chemical agents, and much more. "Far too many people believe that a nuclear war would be totally unsurvivable, that it would mean the end of all civilization, and that the few miserable survivors would live lives of one unmitigated horror after another until, mercifully, they died," says the author in the book's introduction. "THIS BELIEF IS NOT TRUE! . . . The only real limitation on your ability to survive is your personal will and ability to plan ahead in support of that will; adequate survival techniques can be practiced for from a few dollars on up to many thousands of dollars. There is an affordable survival plan for every budget." Covered are historical disasters, gases, bugs and neutrons, nuclear weapons, blast effects, thermal effects, radiation, nuclear weapons targeting, the probability of war, aftermath, survival options, warning, the survival group, food and water, clothing, fallout garb and other equipment, medical supplies and treatment, transportation, communications, energy sources, tools, weather gauges and office supplies, education, weapons and fortifications. This is a very detailed, clearly written and well illustrated book worth studying for anyone interested in surviving the nuclear threat—whether from war, terrorism or accident.

(Continued on page 30)

Uncle Mike's:

Hunter's Saw

A strong, light, adjustable tool for outdoors chores . . .

Staff Report



THE NEW Sidekick Hunter's Saw from Michaels of Oregon (Uncle Mike's) has an extra thick (.045-inch) blade of high carbon alloy steel.

The teeth are specially ground and "set" for their intended jobs: one side for wood, the other for meat and bone. The blade can be resharpened.

The handle is made of high-impact Delrin material molded to conform to the hand comfortably, with finger grips for a good hold. It's impervious to heat or cold and won't freeze to your hand like metal. The handle can be angled by loosening a knurled knob and moving the blade.

Positive detents in the handle and "gears" in the blade keep the blade from turning once it's locked in place. The handle can be rotated a full 180 degrees for more compact packing or carrying on a belt.

The Hunter's Saw comes with a camouflage Cordura nylon belt scabbard with a snap-down flap. Belt loops will fit on any belt up to 2 1/4 inches.

Although adjustable, the saw has no loose parts that can fall off and be lost. It weighs just seven ounces without scabbard. Suggested retail price is \$19.95 at gun and sporting goods stores.

For a catalog of the many other Uncle Mike's products for shooting and hunting, send \$1 to Michaels of Oregon, Dept. ASG, P.O. Box 13010, Portland, OR 97213. ●

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Ballistic Nylon:

Special Weapons Holsters

Superior materials and construction . . .

By Jim Benson



WHEN you look over Special Weapons holsters, you see the difference superior materials and construction make.

These holsters, for just about any handgun available, are made of rugged ballistic nylon and double stitched and tucked at stress points for maximum strength. Thumb break -activated Velcro closures assure quick, snag-free removal of the weapon. Special Weapons backs all products with a lifetime warranty.

An assortment of Special Weapons holsters and accessories were recently loaned to the staff of *American Survival*

Guide for evaluation. We liked what we saw, and staffers wound up buying a number of the holsters for their own guns.

One of these holsters, a top seller, is the Belt Slide model dubbed "Hotcake" for its sales records. The Belt Slide features a hook & loop adjustable thumb break and is designed to be used by both right- and left-handed shooters. The holster has a full tunnel back belt loop insuring that the firearm rides close to the body for maximum concealment. This design allows great comfort while carrying a gun yet a low profile. The Belt Slide is available in

black or tan for \$19.95.

"Carry a Little Peace of Mind," says Special Weapons' ad for its Ankle holster. You do indeed carry peace of mind—and firepower. Designed for utmost concealment while retaining speed and security, the Special Weapons Ankle holster is ideal for undercover work.

A metal-reinforced thumb break allows speed in drawing the weapon while the upper calf support prevents flopping even during a full run. An integrated foam padded back adds comfort and protects the holster from sweat build-up. Available in black only for \$29.95.

When it comes to shoulder holsters, the Special Weapons Classic holster is among the best. To begin with, there's the 24-hour harness system providing comfort for extended periods of wear.



TOP & ABOVE—The Belt Slide holster is designed for use by both right- and left-handed shooters. It keeps your gun close to your body yet is comfortable to wear.

A vertical holster with front draw is accomplished by a pull through hook & loop fastened tab. A quick pull forward releases the firearm into your hand ready for immediate action. This combined with the cutaway design allowing for full grip clearance and correct indexing gives you one of the smoothest draws obtainable with this type of rig.

A wide nylon webbing belt loop is used to distribute a large portion of the firearm's weight onto the belt when drawing the weapon close to your body. The upper yolk has been designed to pull the firearm snugly against your body for concealment. The Classic is available in black or tan for large frame autos and revolvers with 4-, 6- and 8-inch barrels for from \$39.95 to \$44.95.

Special Weapons' 24-hour holster is

designed for the professional who is required to carry a firearm concealed for lengthy periods. The harness features soft 1½-inch wide nylon webbing that molds to your body and does not bind or chafe. The holster has an exclusive hook & loop adjustable, metal-reinforced tab, thumb break retention system.

The 24-hour holster is adjustable for right- or left-hand operation. It features an adjustable belt tie-down, and will accept most medium and large frame autos and small, medium and large frame revolvers.

Optional ammo pouch will accept double column 9mm mags, .45 mags and strip-style loaders for revolvers. The pouch also has an adjustable belt strap for weight equalization and belt loops for use on trousers or web belt.

There is also an optional handcuff case.



The 24-hour holster is designed for the professional who must carry a weapon concealed for long periods. It provides maximum comfort and a quick draw. It accepts most medium and large frame autos and small, medium and large frame revolvers.



The Colt .380 Mustang is unnoticed in the Special Weapons Ankle holster but it's readily available for fast drawing.



The Badger holster offers the flexibility of being able to carry small through large frame revolvers and autos and uses the same comfortable shoulder straps as the 24-hour holster.



A quick pull forward delivers your gun into your hand instantly with the Classic holster, available for large autos and revolvers.

Available in black or tan, the 24-hour holster is \$34.95.

The Special Weapons Badger holster can deliver your firearm into your hand in the quickest possible time while providing maximum concealment.

The Badger offers the flexibility of being able to carry small through large frame revolvers and autos and uses the same comfortable shoulder straps made famous by the 24-hour holster. Ammo pouches or handcuff cases to go with the Badger are also available. The holster itself is available in tan or black for \$34.95.

Special Weapons also offers a number of other products such as a SWAT-style tanker holster rig, boot knife and sheath, duffle and operations bags, shotgun ammo bandoliers, web gear, wallets, survival knives and an executive protection case. For ordering or more information, contact Special Weapons Products, Dept. ASG, 8740 Flower Road, Rancho Cucamonga, CA 91730; (714) 981-2032; or toll free nationwide (800) 262-2220, and in California (800) 341-3330. ●

Juice:

Heavy Duty Alternator

The right equipment gives you the extra power you need for your off-road rig . . .

By John Columbia



TODAY'S four-wheeling enthusiasts enjoy loading down their rigs with a variety of accessories, many of which use electricity. Heavy-duty lights, killer stereos and stump-puller winches can place a severe strain on a vehicle's electrical system. Unless the entire system is properly reinforced to withstand the additional current draw, the stock components can fail.

Some vehicles come factory-equipped with heavy duty electrical systems, usually as part of a trailer towing or camper hauling package. Such an optional setup will typically include a high-output alternator and heavy-duty battery, both of which can go a long way towards providing enough steady, reliable energy for those electrically-operated goodies. But, if your rig doesn't have a towing package, or the unit you want to buy can't be ordered with the extra-heavy components, you'll need to turn to the aftermarket for the extra juice you may be needing.

The latest high-power light from Dick Cepek, called the C-1000 Super Off-Roader, illustrates a good case in point regarding the need to beef-up a rig's electrical system. The C-1000 features a 210-watt quartz-halogen bulb in a heat-resistant reflector, mounted in a steel housing topped by a unique cast-alloy air-deflecting cooling vent. The C-1000 is said to be

good for a five-mile reflective range.

According to the Cepek advertising information, these babies produce one million candlepower each! They also draw a healthy 17 amps of current. We weren't able to measure the candlepower, but the current draw was verified by a precision ammeter. That much current draw, in sets of two, four or however many lamps, can have a seriously adverse effect on the



Dick Cepek was the source of the C-1000 Super Off-Roader lights as well as the switch kit and heavy-duty double relay.

vehicle's electrical system unless it's set up to handle the load. And, using an expensive, high-output battery isn't the answer—it's the alternator that provides the juice to recharge what you've used from the battery.

Fortunately, several high-powered alternators are available to fit most popular 4x4s on the road today. Cepek has added a line of 105-amp output alternators, manufactured by Central High-Power Products, to supply the needs of customers operating a raft of electrical accessories. These are available to fit GM, Ford, Chrysler, Toyota, Mitsubishi and, with an adapter, Nissan products. Natural gray, chrome and a variety of powder-coated paint finishes are available.

Central uses all-new components when assembling the alternators, including custom-cast housings and extra heavy-duty regulator diodes. You know you're getting a spanking new product for the investment, not some rebuilt piece with an un-

(Continued on page 64)



Power for the lights came from a Cepek high-output alternator, manufactured by Central Hi-Power Products. Central Hi-Power fits the high-power alternator housing at left with an extra-efficient cooling fan. Compare it to the stocker at right.



A 50-amp voltage regulator diode is used in place of the 25-amp unit found in most stock Delco alternators. The field windings at left are custom-manufactured for the higher amperage requirements.

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- KX-210 identical with KX-240V pictured above, but with a traditional lacing system, \$34.95/pr.
- KX-395 same basic construction as the KX-210 but in a mid-high boot with ankle closure, \$44.95/pr.
- KX-280V same design and construction but in an all leather model for street and casual wear, \$49.95/pr.
- KX-870 Silent Black; same basic design in a soft leather upper, traditional lace system, all black - no marks or logos, \$48.00

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.460 Weatherby Magnum, Fiberguard:

Top Gun

World's most powerful rifle, flagship of Weatherby lineup . . .

By Bob Clark



ORIGINALLY developed to meet .40 caliber and over game laws in some parts of the world, the .460 Weatherby has since become very popular with collectors and big game hunters alike. Put quite simply, the .460 Weatherby Magnum is the world's most powerful hunting cartridge.

Shooting a 500-grain bullet at 2,700 feet per second the rifle develops near 8,100 foot pounds of muzzle energy, 500 more than the formidable English 600 double. The weight and velocity quite naturally give the cartridge substantially more killing power than others in the same category.

Weatherby rifles, while among the most luxurious in materials and appearance, are designed to be used. Compared to the English 600 the .460 is a lightweight at 12 pounds. Other notable features include integral muzzle brake, close grained wood, hand honed action and hand crafted French walnut stock. For anyone after the ultimate in knock down stopping power this is Numero Uno.

One of Weatherby's latest additions is the Fiberguard series. These rifles feature a hand molded fiberglass stock which is impervious to all types of weather. From the blistering desert to the frozen tundra these rifles remain deadly accurate. Each stock features a wrinkle finish for a sure positive grip even when wet. Best of all, weight for the Fiberguard is a mere 6

pounds, 8 ounces in most calibers. Our test rifle in .308 fitted with Burris rings and 2x7 scope weighed in at under 7 pounds. This light weight, rough and rugged stock construction combined with

traditional Weatherby workmanship, reliability and accuracy make the Fiberguard a perfect choice for anyone in search of a relatively inexpensive yet superior quality rifle. ●

Weatherby .460 Weatherby Magnum: Tech Specs

Weight w/o sights	10 1/2 lbs.
Overall length	46 1/2 lbs.
Capacity	3 shots: 2 in magazine, 1 in chamber
Barrel	26 inches
Rifling	1-16" twist
Sights	Scope or iron extra
Stock	Hand bedded French walnut. High lustre durable finish. Detachable sling swivels, checkering, Monte Carlo cheek piece. Pull 13 7/8 inches
Action	World's strongest and safest action. Nine locking lugs. Cartridge case completely enclosed in bolt and barrel. Hand honed, checkered knob, damascened bolt and follower, engraved floor plate.

Weatherby Fiberguard: Tech Specs

Calibers	.223, .243, .270, 7mm Rem. Mag., 30-06, .308 Win.
Barrel	20 inches
Weight	6 pounds, 8 ounces/6 pounds, 10 ounces
Overall length	40 inches/40 1/2 inches
Magazine capacity	223/6, 7mm/3, others 5
Rifling	223 1-12 inches, others 1-10 inches
Sights	Scope or iron extra
Stock	Hand molded fiberglass, non-glare, forest green wrinkle finish. Recoil pad on 7mm
Action	Vanguard action-improved Mauser type
Manufacturer	Weatherby, Inc., Dept. ASG, 2781 Firestone Blvd., South Gate, CA 90280



Even the most seasoned shooters find the awesome power of Weatherby's 460 Weatherby Magnum a real awakening.



The Vanguard Fiberglass features a molded fiberglass stock which is impervious to climatic changes. Weight is a mere 6½ pounds.



Personal Protection:

Safe From Terrorists And Kidnappers

Schools that teach survival skills . . .

By John R. Alba



ABOVE & LEFT—ESI personnel simulate a terrorist attack for training purposes.

SINCE 1960, more than 65 American diplomats have been killed or wounded by terrorists abroad, including five American ambassadors.

Since the early 1970s, 41 percent of terrorist attacks worldwide have targeted Americans. The risk is sufficient to have prompted Secretary of State George Schultz to ask Congress for a \$4.4 billion appropriation for an anti-terrorist improvement program for our embassies. Pan American World Airways has just announced the formation of its own high-profile security force which it is making available to other airlines.

But what of American businessmen and



ABOVE & LEFT—Students practice "shootout" tactics at ESI's "OK Corral."



with a client, we try to work the agent into the corporate structure. He does a full-time job as a personnel officer or in some other capacity, in addition to his work as a bodyguard. You can't afford boredom, an agent can't be standing around studying the wallpaper," he says.

While the agent must be on equal footing with his employer, says Jarrett, in matters of security, the agent must be in full and complete command. "It doesn't help that you have the best agent in the world if you don't take his advice," he points out.

What makes a good personal protection agent, he asserts, is training. "I don't mean just learning how to shoot a gun or how to deliver a spinning karate kick. The kind of training I mean is in how to anticipate and avoid dangerous situations."

Security is an expensive commodity, argues Jarrett and one must be prepared to

pay the price for it. "I advise a client who can only afford one agent to figure on an absolute minimum of \$30,000 a year as a salary. Add to that liberal vacation time, time for additional training and refresher courses, and a generous clothing allowance. It just won't do for the client to wear Brooks Brothers or Pierre Cardin and have the agent dressed in off-the-rack J.C. Penney. Executive protection is a very expensive proposition, but these days, it may be more of a necessity than a luxury."

For those who may not be top level risks or who cannot afford to hire professional protection agents, Jarrett offers this advice: Get some professional advice and some training for yourself. Beyond that, here are a few rules to follow:

"Unless it is absolutely necessary, avoid the trouble spots. Don't go to the Middle East, or Greece or Italy. Stay out of France. But if you must, then go carefully. Keep a low profile. Blend in with the native population as much as possible. Don't use expensive limousines or vehicles with company logos on them. Keep your visit strictly business, forget the nightlife. Never eat in a sidewalk cafe, no matter

(Continued on page 59)

women who must travel or work abroad without the benefit of embassy security? How do they go about ensuring their own security after they leave the confines of tightly guarded airports?

James R. Jarrett, president and founder of Protective Services International, an agency based in Phoenix, Arizona, that trains and provides personal protectors or bodyguards, advises individuals to assess their own threat level and act accordingly.

Assessing the threat level is a matter of realistically examining one's position in life and the likelihood of someone making him or her a target. In some places, just being an American defines a high-risk potential. But a CEO for a Fortune 500 company is a definite candidate for professional executive protection services.

These days, that doesn't mean a knuckle-dragging Neanderthal or a fugitive from the pro-wrestling circuit. Instead, claims Jarrett, "the ideal bodyguard is an intelligent, educated, sophisticated individual, capable of mixing socially and fitting in professionally with his employer."

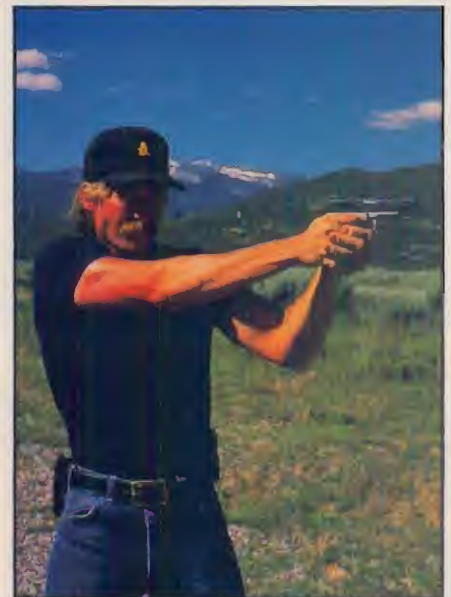
Ideally, one should not be able to distinguish between the "client" and the "agent" or bodyguard, he maintains.

"In most cases, when we place an agent



ABOVE—ESI President Bob Duggan instructs a class in hand-to-hand combat.

RIGHT—Wally Dallenbach, escape and evasion driving instructor at ESI.



John Farnum, chief shooting instructor at ESI, demonstrates pistol shooting techniques.





Children were able to help in many ways and were quick to learn lifesaving skills.



ABOVE—This was just one of the situations set up by the simulation team for the drill.

FAR LEFT—A "medic" is hard at work trying to save a "victim."

LEFT—Eye injury "victim" is made comfortable before being carried to the aid station.

Live Free:

Operation Lifesaver

'We felt this would be a good opportunity to show the public what the real survivalists are all about' . . .

By James C. Jones

(The author is president of Live Free, Inc., the nation's largest survivalist organization —The editors.)

IT WAS Saturday April 26, 1986 and deep in the Soviet Union at a place called Chernobyl a nuclear reactor was going out of control, spewing a huge cloud of radioactive material into the atmosphere. Meanwhile, in silos under the earth, on hundreds of military runways and in submarines cruising beneath the world's oceans, thousands of nuclear warheads waited their call. At the same time, no doubt, more terrorists were training and plotting for new acts of violence and mass killing.

In America most people spent their Saturday playing golf or watching TV or washing their cars, but a few people had elected to spend this late April weekend in more serious activities.

On April 26th 1986 members of Live Free had gathered at Tippicanoe River State Park in Indiana to participate in "Operation Lifesaver," a training seminar and mass disaster drill based on a nuclear disaster scenario. And by coincidence on that same date on the other side of the planet the world's worst nuclear disaster was taking place.

Planning for "Operation Lifesaver" began in September of 1985 when the Live Free Medical Aid Studies Group concluded that the group camp units at Tippicanoe River State Park, Indiana, consisting of from eight to 10 cabins of various sizes, **would be perfect sites for conducting a realistic mass disaster drill.** Using the cabin grouping and the roads leading into and through it as a mock town, we would be able to create the wide variety of simu-

lated emergency situations and environment of chaos that would result from a truly large-scale disaster.

Since the group camp sites are located far back in the woods we would not need to worry about other traffic on the roads or curious onlookers interfering with the operation. At our first planning meeting, we decided that this would be a "high profile" activity to which the public and the news media would be encouraged to attend. We felt that after all the bad press that "survival groups" have been getting this would be a good opportunity to show the public what the real survivalists are all about. It was felt that more interest in the event would be generated if we based the drill on a scenario with a high relationship to current news events.

The scenario chosen was that of a terrorist constructed nuclear bomb being detonated a few miles from our mock town resulting in heavy damage and severe injuries on one side of town and lesser damage and injuries on the other side. A special team would be assigned to act as security for the medical aid station and the "medics" in the field, while another team would act as looters and raiders to make things more interesting and realistic. The objective of "Operation Lifesaver" was stated in the promotion flyer as follows:

"In the event of a nuclear attack, environmental emergency, natural disaster or mass social/economic collapse, there will be a great many immediate and unavoidable fatalities but there will also be many more **AVOIDABLE** fatalities that would result only from ignorance, fear and lack of preparedness. We believe that it is the **duty of every good citizen of a free nation** to be prepared to survive the survivable and help to save those that can be saved. Operation Lifesaver is dedicated to this objective."

Having established the site, objective, program and scenario for the operation, it was time to get down to serious preparation. The Medical Aid Studies Group, having conducted a wide variety of first aid, nuclear, biological and chemical defense seminars over the years, had quite adequate resources for handling the training and coordination phase of the operation, but had only a little knowledge of casualty simulation techniques, so a large casualty simulation kit was purchased. The kit contained five large rubber (strap-on) injuries including a sucking chest wound, gun shot wound through the hand, open fractures and even an amputation stump. Each of these simulations could be hooked up to a small bag of simulated blood and had a hand pump bulb under the mock victim's clothing, so that it would ooze or gush blood.

The kit also contained dozens of stick-on injuries to simulate cuts and burns. Make-up items in the kit included white and blue grease paint for shock and red for burns and embalmers wax that could be used to create all sorts of grotesque effects. It was decided that since we would need to have a good number of trained casualty simulators available for the drill, we should conduct a special course on the subject through the winter months. At each class we would simulate a number of injuries until we had them as realistic as possible. We would photograph the simulated injury and then treat it (stop bleeding, bandage, splint, etc.) step by step, photographing each step, and thus produce a slide training program for use at the coming operation.

The class often looked like Halloween parties. But not only did we learn a lot about casualty simulation, we also learned that working with realistic simulated

(Continued on page 65)

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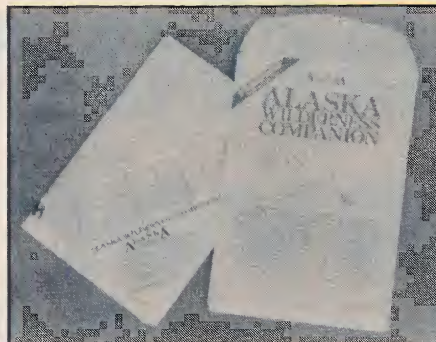
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Book Reviews

(Continued from page 18)



Alaska Wilderness Companion, by Dennis Cowals, Dave Decker and Frederick Wright; Alaska Fieldbooks, Dept. ASG, P.O. Box 101044, Anchorage, AK 99510; \$9.95.

This unique and highly informative field guide, made of Tyvek material—the same material used for fallout protective clothing—unfolds into a large sheet about 35 inches by 24 inches and is covered on both sides with detailed information on wilderness medicine and first aid, navigation, geography, climate and tides, shelter making and fire starting, dangerous plant and animal life and other hazards the traveler might encounter in the Alaskan wilderness. The fieldbook material and ink are waterproof and tear resistant and weather resistant. Information presented has been collected from the best available sources, including the University of Alaska's Arctic Environmental Information and Data Center, Cooperative Extension Service, Geophysical Institute, Institute of Marine Science and the Institute of Water Resources, as well as from the Alaska Department of Fish and Game, the Cold Regions Research Engineering Laboratory, Department of Defense, U.S. Forest Service, U.S. Geological Survey and other government and private sources. The authors are experienced and knowledgeable on the subject. Cowals, author of the *Mount McKinley Climber's Guide*, has been active in mountain rescue, scuba diving and sea kayaking and has traveled extensively in the state. Decker is a veteran paramedic and instructor in emergency medical care. A member of National Ski Patrol, he's been active in wilderness skiing and mountain rescue. Oceanographer Wright has worked and cruised Alaskan waters from Barrow to Ketchikan for 20 years and has explored much of the interior in his own light aircraft. This is one of a series of fieldbooks on Alaska and other areas of the U.S. Scheduled for December publication are the *Oregon Wilderness Companion* and the *Skiers Companion*. This publication is all but indestructible and contains a wealth of information for those venturing into the Alaskan wilds. ●

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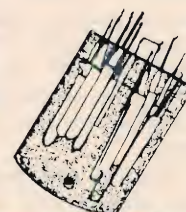
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Same color coded set as Model A, only with deluxe 13 pieces. Price includes tension wrench and book.

Model B **\$27.95**

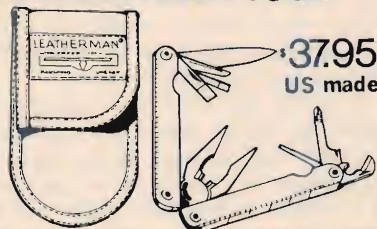
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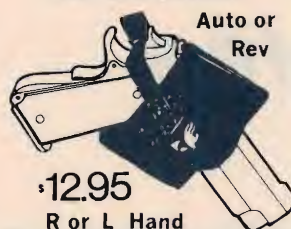


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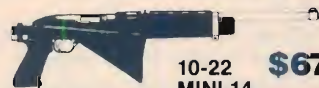
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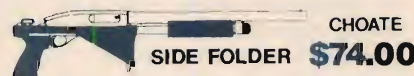
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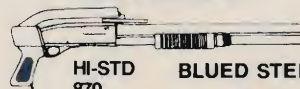
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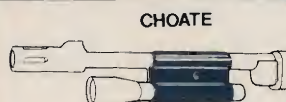
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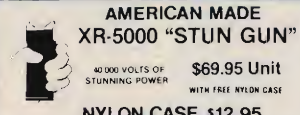
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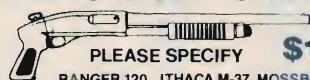
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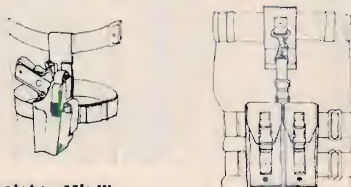


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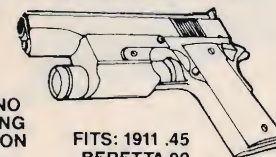
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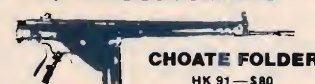
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Fixed Blade, Folding: Lakota Knives

The name speaks for itself . . .

By Bob Clark



OF THE many mass-produced knives on the market few have the status of those with the name LAKOTA. Purchased from ACME Trading in 1982, the Lakota name is now owned by the Brunton Company in Riverton, Wyoming. Brunton is well known for offering products of excellent materials, performance and design. To meet their standards the Lakota line went through minor changes in handle design and makeup. The line was also expanded slightly and now includes a less expensive selection known as the Pardner Outdoor series.

Shown here are the traditional Hawk fixed blade, Lil' Hawk folder, pocket Teal, and Kingfisher fillet knife. The design and



Upsize folding and fixed Lakota knives come with sturdy leather sheaths.

workmanship in these knives and in particular the Hawk series, garnered Lakota knives the cutlery industry's highest awards and a place in the Museum of Modern Art's design collection.

A part of the Surf & Turf collection the Hawk, Lil' Hawk and Teal boast special 8-A high carbon steel blades which are formulated for a Rockwell hardness rating of C 56-59. Redesigned handles on both Hawks feature sculptured resin impregnated Mahogany for a rich smooth look and sure grip. Exceptionally strong, the Hawks are well balanced for versatility and control.

Kingfisher series knives come in 4 1/2-, 6 1/2- and 9-inch blade lengths. Their unique dishwasher safe handles are made of Kraton and are designed with special side notches for filleting and thumb grip for downward cutting. This hard rubber feeling substance provides an excellent grip even when wet. Lakota's Teal was designed as a gentleman's pocket knife and features the same quality workmanship found in all Lakota knives. The blade is once again the special 8-A high carbon and the body is a buffed stainless. Blade length is 2 inches with an overall length of 4 1/2 inches. The Teal 290 features 24K gold engraved teal ducks on the handles.

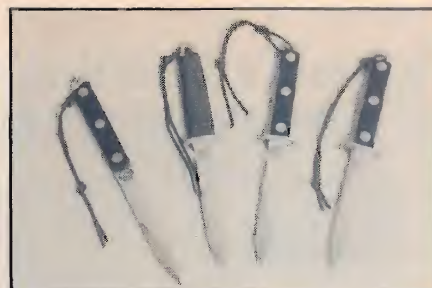
All of the Lakota knives shown here, with the exception of the Teal, come with a rugged yet attractive leather sheath.

What we have presented is a sampling of the renowned Lakota lineup. If you would like further information on Lakota knives contact any of the finer sporting goods stores or write The Brunton Co., 620 E. Monroe, Dept. ASG, Riverton, WY 82501 for the name of your local dealer. ●

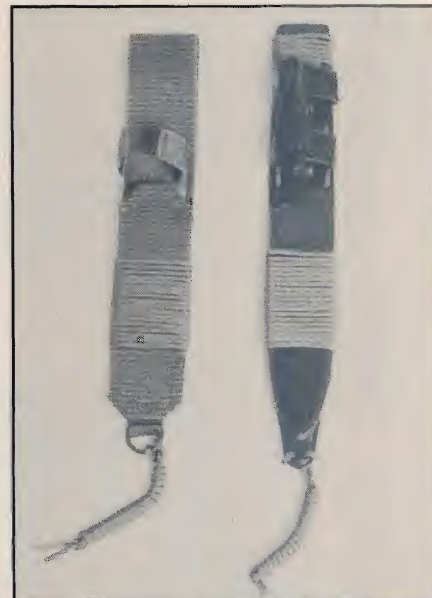


The Hawk fixed blade and folding Lil' Hawk shown here are responsible for numerous industry merits as well as outside design awards. Extremely strong and durable these are the outdoorsman's premium companions. The Hawk measures 8-5/8-inches overall with a 4-1/4-inch blade. Weight is 10-ounces. Lil' Hawk measures 8-3/8-inches overall with a blade of 3-3/4-inches. Blade thickness is 3/16-inch for the Hawk and 5/32-inch on the Lil' Hawk. Both knives feature 8-A high carbon stainless steel blades.

Full Tang:



Shown here from left are the P1 single edge with Pakkawood grips and no crossguard, the Survival/Fighter single edge, the M3 single edge with crossguard and Micarta grips, and the P4 double edge with crossguard and Pakkawood grips.

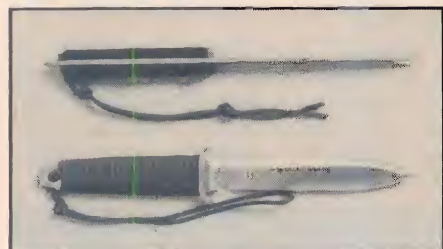


The Survival/Fighter and the P-Series knives come with Ek's quality nylon web sheath, left. The M-Series knives come with Ek's deluxe leather sheath, right.

Ek Commando

The leading private-purchase military knives in American history . . .

By Jim Benson



All Ek knives are full-tang knives made from a solid bar of high carbon surgical stainless steel.

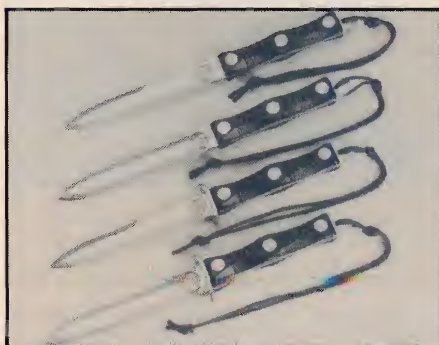
EK COMMANDO KNIVES, manufactured since 1941, hold the record for being the leading private-purchase military knives in American history. They are made by a company devoted solely to production of military knives.

Besides their classic Survival/Fighter, Ek offers eight other styles of its basic military knife with double- or single-edged blades and Pakkawood or Micarta grips. All are of the full-tang design using a solid bar of HCS1718 high carbon surgical stainless steel. The blade is heat treated to 1,950 degrees F., then plunged to -120 degrees F. to retain a razor edge. And **these blades are very sharp!** If you handle one, beware. It's easy to cut yourself or to cut many things the blade can touch with its edge.

The Survival/Fighter has an olive drab

"paragrip" hilt providing a comfortable, non-slip grip that can quickly be unwrapped to provide 18 feet of 550-pound tensile strength mil spec parachute cord for emergency lashing. The Survival/Fighter comes with Ek's quality olive drab nylon web sheath, stitched and fitted with rivets for extra strength. An additional 8 feet of parachute cord is wrapped around the sheath. It's designed for use on LBE (ALICE), STABO or Assault Harnessing. Overall length of the Survival/Fighter is 12½ inches.

The P-Series knives are the same as the Survival/Fighter except they come with Pakkawood grips with poured lead rivets. They also come with the same quality web nylon sheath.

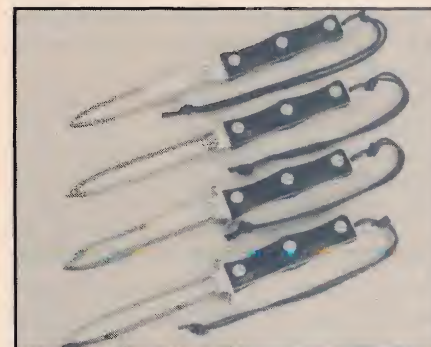


These are the P-Series knives with Pakkawood grips.

The M-Series are the same knives with Micarta grips and brass X-head fasteners, and these knives come with deluxe black leather sheaths—also with 8 feet of parachute cord wrapped around them for emergency use. Like the web sheath, the leather sheath will fit military web belts and harnesses.

Suggested retail prices for these knives start at approximately \$100.

For more information, see your local knife dealer, or contact Ek Commando Knife Company, Dept. ASG, 601 North Lombardy Street, Richmond, VA 23220; (804) 257-7272. ●



The M-Series with Micarta grips.

Outdoors Sporting Goods:



LEFT — Designed to meet virtually any outdoor need Western's 17 styles of sheath knives are hard to beat. Shown here, from top to bottom, is the "heavy duty" W36 with high carbon steel, 5-1/2" blade and resin impregnated wood handle. Second from the top is the W84 with 4-1/2" stainless steel blade and impregnated sure grip handle. Below the 84 is the new W82. The 82 Hunter features an upswept stainless blade, the 84 is a drop point, making it perfect for camping and hunting chores. The W82, W63 and W84 all feature a new pouch type sheath for one handed operation and security. Blades are high saber ground for extreme strength under pressure. 80 series knives are from the Cut Above collection.

The Western Cutlery line now includes two very distinctive groups, the Old Reliable line and the recently introduced Cut Above collection. The knives pictured here are all from the traditional Old Reliable collection. And as the name implies these designs have been honed to perfection over years of day in and day out field testing. Performance and reliability have become the trademark of each model in the Old Reliable line. So confident is Coleman/Western of their knives' ability to stand up to the most rigorous use they offer the industry's first and only 100 year full warranty! I'd say that pretty well safeguards your investment.

For years America has relied on Coleman for the finest in outdoor gear. The addition of Western Cutlery to the already expansive Coleman selection adds a finishing touch to an already outstanding product line.

Western Cutlery knives are available in finer sporting goods stores nationwide. If you would like further information or the name of a dealer near you write to: Western Cutlery Co., 1800 Pike Road, Dept. ASG, Longmont, CO 80501. ●

Western Cutlery

A cut above . . .

By Bob Clark

BACKDROPS COURTESY NACONA BOOT CO.

PRIOR to relocating in the new world in 1864 the H.N. Platt family had, for generations, been hand fabricating high quality knives in Sheffield, England. Production continued in this country and in 1911 the first Western State Cutlery manufacturing facility was opened in Boulder, Colorado. A final move was made to larger quarters in Longmont in 1970 and in 1984 a historic move was made when Harvey Platt sold Western Cutlery to the world renowned Coleman Company.

The merger of Western and Coleman brought together two of the oldest and most respected names in American outdoor sporting goods. In fact at about the same time Western opened the first plant in Colorado Coleman was beginning to light the way for outdoorsmen around the world. Coleman was quick to bear witness that the high standards Western Cutlery had established would be even further refined and the line expanded. This expansion

is most evident in the fact that a total of 20 new knife designs were introduced in 1985!



Designed after and to work and look better than the monster wielded by Bowie at the defense of the Alamo some 150 years ago, Western's W49 Bowie is a true classic. The Bowie features a heavy gauge 9 1/2 -inch chrome-vanadium blade, solid brass guard, durable resin impregnated handle and full length tang. This serious knife can be ordered with the exclusive "swing" sheath shown or hardwood trophy plaque.



Here's a perfect combination for the seasoned woodsman or occasional camper. The W6610 is a rough and rugged axe-knife combination that fits into one compact sheath. The W10 axe weighs 1 pound and has a sharp 2 1/2 -inch cutting edge. Companion to the axe is a W66 knife with durable 4 1/2 -inch saber ground blade. Axe and knife carry matching resin impregnated hardwood handles and 100 year full warranty.

For Every Purpose:

Buck Blades

Several new knives have been introduced this year . . .

Staff Report

BUCK KNIVES are known around the world for their quality construction and edge-holding ability.

The firm, based in El Cajon, California, manufactures a huge and varied line of knives for every purpose, including survival knives, the most famous being the Buckmaster.

Several new knives have been introduced to the Buck line this year, among them the OceanMate filleting knife, finger-grooved folding lock blades, new sizes and handles for the hot-selling BuckLite locking folders, the Fieldmate and Woodsmate fixed-blade knives with Kraton handles, and the Buckmaster LT, a skeletal-handle, full-tang version of the Buckmaster survival knife developed for use by U.S. Navy SEALs.

Buck knives are sold all over the country and in many foreign countries, so finding them is not unusually difficult. See your local knife dealer, sporting goods store or mail order firm for more information, or write to Buck Knives, Inc., Dept. ASG, P.O. Box 1267, El Cajon, CA 92022. ●

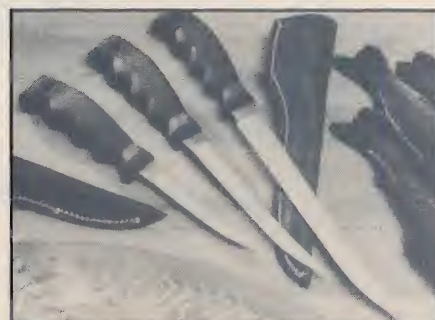


Buck manufactures a full line of hunting knives designed to meet specific outdoors needs.

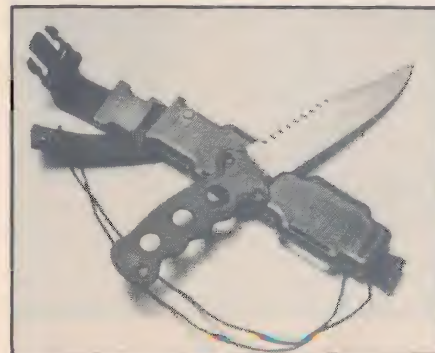
RIGHT—The new OceanMate (right) joins the LakeMate (center) and the StreamMate in giving fishermen a choice of sizes of Buck's filleting knives.



ABOVE—Two new finger-grooved folding lock-blade knives from Buck are shown here. The Model 110FG (top) is an adaptation of Buck's famous Folding Hunter. Folding to a compact 4 7/8 inches, it comes with a rich brown leather sheath. The Model 112FG is a variation of the Ranger, which folds to 4 1/4 inches and comes with the same sheath.



Meeting the demand for comfortable sure-grip handles, Buck offers the Woodsmate (left) with black Kraton handle in black nylon sheath. It has a 6-inch blade with blood groove. The Fieldmate, right, has an olive drab Kraton handle with 5 1/2-inch blade with emergency saw and sharpened serrated clip, and comes with a nylon camouflage sheath.



The Buckmaster LT has a 7 1/2-inch blade with emergency saw and serrated chamfer. Its skeleton handle is sealed in thermoplastic. The knife comes with a rugged black hard plastic sheath.



The BuckLites come now with olive drab handles of engineering-quality thermoplastic and in two new sizes. The BuckLite II (bottom), is 3 3/4 inches closed, while the BuckLite III (top) is 4 7/8 inches closed. The BuckLites come with nylon sheaths in tan, brown or camouflage.

Blades, Instruments:

Gutmann Cutlery

Three survival tools . . .

Staff Report



LEFT & LEFT BELOW—The Deluxe Survival Tool fits in the smallest pocket or on a belt and has more than 15 uses.



RIGHT—Mini-Magnum Survival Knife is very sturdy and features optional brass butt cap with liquid filled compass and quality leather sheath.

THE name Gutmann is associated throughout the world with fine cutlery of all types. Included in the Gutmann family of knives, sharpening devices and precision instruments are the Explorer and Puma knife brands.

There are knives of all types, among them a number of survival knives and tools.

Three new items in the Gutmann catalog are the Deluxe Survival Tool, the Explorer Mini-Magnum Survival Knife and Explorer Vanguard Boot Knife.

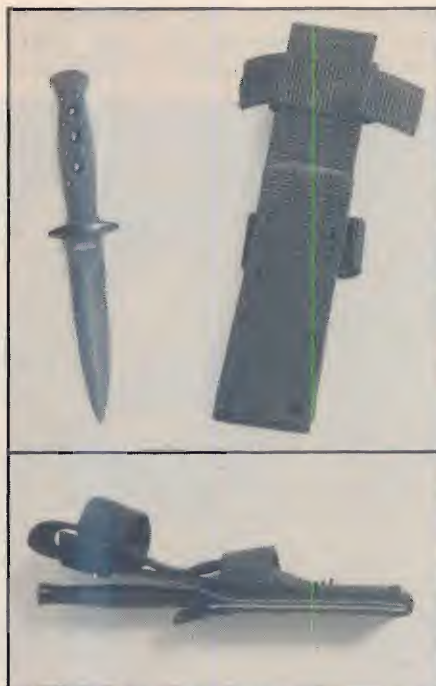


The Deluxe Survival Tool is a popular, pocket size multi-purpose knife/tool with pen blade and scissors. Great for campers, hikers and impulse buyers, Deluxe Survival Tool comes complete with vinyl case that will fit most belts or can be slipped into the smallest pocket to take along on an outing. An instructions sheet explains more than 15 different uses for this tool, including cap and can opener, screwdriver, ruler, mirror, nail file, sharpening stone, and magnifying lens. Suggested retail price is \$20.

The Explorer Mini-Magnum is billed as the forerunner of a new trend in survival knives. Small yet versatile. The 3½-inch modified drop point blade is 440 stainless steel with matte finish and sawtooth back, crosshatch aluminum handle and solid brass guard and butt cap. An optional brass butt cap with liquid filled compass mounted on top is included with the knife. Excellent cowhide sheath with rawhide leg strap and snap closures is also included. Suggested price is \$45.

Explorer Vanguard Boot Knife is 7½ inches overall with a 3¾-inch blade of 440 gunblued stainless steel and ventilated contoured metal handle. Two-way sheath of nylon web with loops for most belt sizes, eyelets and easy open Velcro strap completes the package. Both sheath and knife are black. Suggested price is \$19.50.

These and many, many more fine knives and tools, such as compasses and stop watches, are available from Gutmann directly or from your local cutlery dealer. For more information or ordering contact Gutmann Cutlery, Inc., Dept. ASG, 120 S. Columbus Ave., Mount Vernon, NY 10553; toll free (800) 431-2750. ●



TOP & ABOVE—Explorer Vanguard Boot Knife is 7½ inches overall with 3¾-inch double-edged gunblued stainless steel blade.

Vietnam:



Gerber Mark II

A limited edition of 5,000 Mark IIs in honor of the 20th anniversary of this famous survival fighting knife . . .

By Jon Reinschreiber

NINETEEN EIGHTY-SIX is the 20th Anniversary of the Gerber Mark II, the world's most famous and most copied survival knife. Designed originally for American military forces in Vietnam, the Mark II is based on drawings by retired Army Captain C.A. (Bud) Holzmänn. Captain Holzmänn's design incorporated several unique features, the most unusual of which was the wasp-waisted blade, which was angled at 5 degrees. This innovative offset blade allowed the Mark II to hug the contours of the body.

The ideas that Holzmänn submitted on May 15, 1966, were turned over to Gerber's design and engineering staff, which proposed a number of changes and refinements. Included in these changes was the one-piece cast aluminum handle with Steel-Grip coating. Steel-Grip is produced by spraying molten stainless steel directly onto the aluminum handle, producing a "cat's tongue" texture.

By June 1966, a prototype knife was ready and taken to Fort Lewis, Washington, for evaluation by the Fourth Infantry. The evaluation team made suggestions which further refined the design, and in August, gave their approval to a second prototype.

Using L-6 high speed tool steel for the blades, the Mark II went into production in October 1966, and the first knives were ready for shipment in late November. An advertising campaign offering the Mark II directly to U.S. servicemen was initiated in December 1966, with advertisements placed in newspapers such as the *Fort Riley Post* and the *Saigon Post*. The Mark II was an immediate success with servicemen in Vietnam. It was especially popular with elite military units such as Army Special Forces, Marine Recon, Navy SEALs and Army Rangers.

A total of 2,747 of the special Mark II knives with angled blades were made and

sold to servicemen overseas and in the U.S. In mid 1967, Gerber began manufacturing the Mark II with a straight blade only. Unfortunately, some purchasers of the original Mark II did not understand that the 5-degree angle was a design feature and therefore wanted a knife with a conventional straight blade. In 1969, the Steel-Grip handle was discontinued in favor of Armorhide, which was being used on Gerber hunting and fishing knives. At this time, the wasp waist disappeared in favor of a straighter, fuller blade.

Due to customer requests, Gerber started producing the Mark II with optional serrations in 1970. This feature soon became standard.

In late 1979, the standard blade material was shifted from L-6 to 440C high carbon surgical stainless steel. L-6 blades remained available as an optional feature.

In order to provide better camouflaging and keep up with the then current trend in military equipment, the handle of the Mark II was changed from gray and black to solid black. This change was made in 1978 and a new powder coating process was used to bond the color to the handle. This change in handle color brought the Mark II to its current configurations.

At this writing, most of the 5,000 limited edition Mark II commemorative knives issued by Gerber this fall were already sold. For more information, contact Gerber Legendary Blades, Dept. ASG, 14200 Southwest 72nd Ave., Portland, OR 97223; (503) 639-6161. ●



New Cold Steel Shinubo Tanto folders have blade lengths of 3.5, 2.5 and 1.5 inches.

Cold Steel Knives

New versions of the famous Tanto cutlery . . .

By James M. Sammons

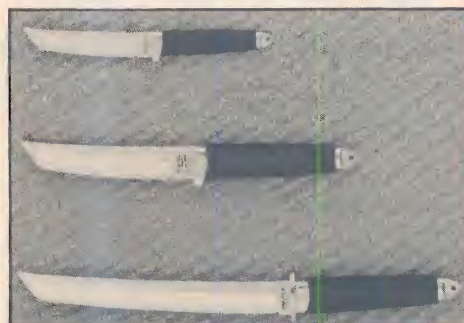
HAVING just completed an article on Cold Steel knives I thought I had covered all of their products. This idea was shattered by a copy of the company newsletter which told of the addition of seven knives for 1986.

Cold Steel has added a folder model in three sizes. The new folder, known as the Shinubo Tanto, has, like all of its predecessors, a rubber non-slip handle. The blade is laminated steel with the tanto point. This blade, the Master Tanto style, is capable of penetrating car doors and cutting a one-inch piece of rope with a single stroke. The largest version has a 3.5-inch blade and retails for \$69.95. The two smaller ones have 2.5-inch and 1.5-inch blades retailing for \$49.95 and \$19.91.

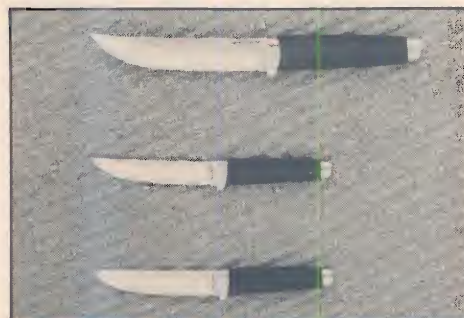
The Cold Steel main line of Tantos has two new additions. The Mini Tanto and the Magnum Tanto. The smaller of the

two weights in at 4 ounces with a 4.5-inch blade. The Magnum is 12 ounces with an 8.75-inch blade and has an addition of a hand guard. This model brings back memories of the short Japanese swords of World War II. These models retail for \$89.95 for the small versions, \$129.95 for the regular size knife and \$165.00 for the Magnum.

The final additions include the new Outdoorsman model, my favorite for all around use, and a Mini Outdoorsman with a 4.5-inch blade and a sharpened top edge. Another model sports a drop point blade of the same length. My hunting knife is the standard Outdoorsman with a 5.5-inch blade. The smaller versions retail for \$89.95 and the standard are going for \$129.95. For more information contact your local knife dealer. ●



Besides the regular Tanto, center, Cold Steel has introduced the Mini Tanto with 4.5-inch blade, top, and the Magnum Tanto with 8.75-inch blade, bottom.



The standard Tanto Outdoorsman, top, is now complemented by the Mini Outdoorsman with 4.5-inch blade, center, and another Mini Outdoorsman of the same blade length and a drop point.

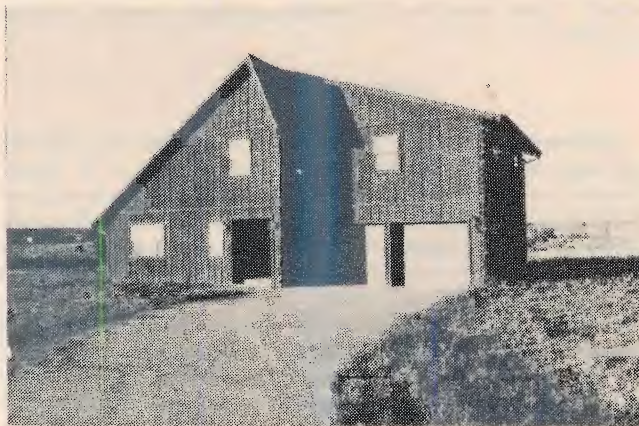


FOR SALE :



AN ENTIRE SURVIVAL ESTATE IN THE WHITE MOUNTAINS OF ARIZONA

This beautiful estate features a custom home designed by the world-renown Survival Homes Corporation. The large 4,255 sq. ft. dwelling is situated on 4.33 acres in a small, self-sufficient agricultural community of 5,000 residents. Placed at an elevation of 5,740 feet in eastern Arizona's White Mountains, this estate has been ideally located for both survival and pleasant country-living. Whether owned as a primary residence or as a second home/retreat, the proud owner will enjoy this custom home and property featuring the latest survival technology amidst a setting of small-town charm and breathtaking views !



PROPERTY & AREA FEATURES

- Fast-flowing canal running through middle of property
- Your own 20-tree fruit and nut orchard
- Horse privileges on property
- Spectacular views of snow-capped peaks 40 miles away
- Skiing, hunting, fishing, tennis, golf, horseback riding, racquetball, and recreation parks all less than an hour away
- Municipal airport 15 minutes away
- Excellent school systems, very low taxes, low-crime area
- Enjoy four seasons temperature and climate

CUSTOM HOME FEATURES

- Four bedrooms, 2½ baths, formal dining room, living room, his and her offices, TV-den area, library, computer room, generator room, bomb shelter
- 2-car garage with separate door openers for each bay
- Custom floor coverings, fireplace, and lighting fixtures throughout
- Custom oak woodwork in kitchen, bathrooms, library, and elsewhere
- R-50 insulated ceilings, R-30 insulated walls, thermal pane windows
- Bulletproof exterior walls, redwood frame exterior
- 1,000-gallon in-line water storage
- Perpetual underground hydrodynamic water supply operates without any power source
- Built-in 4-way security system monitored 24 hours a day by nearby central station
- Satellite television receiving system
- Triple-fuel (gas/wood/coal) 186,000 BTU furnace, triple-fuel Monarch range
- European-style tankless water heater and many other energy-efficient features

There are many other crucially-important survival features involved with sale of this estate; however, discretion prevents their being listed here. After touring the home and grounds, Mr. Robert Meckley, President of Survivalist Clearinghouse, had this to say, "Through all my years of on-site survival consultation, I would rate this property the single best-developed survival property located anywhere in the United States !"

THIS ENTIRE ESTATE IS PRICED UNDER \$300,000 !

For further details and a comprehensive brochure, all parties are invited to call Survivalist Clearinghouse offices at (602) 337-4804 or write to Survivalist Clearinghouse, P.O. Box 870, St. Johns, Arizona 85936.



SURVIVALIST CLEARINGHOUSE

PHONE: (602) 337-4804

BRINGS YOU THE DETAILS



Survivalist Clearinghouse is currently offering for sale one of the most unique survival estates to come onto the market in years. Not only does the home and surrounding property fulfill all of the ideal survival criteria, but this estate offers many other amenities rarely found in a location selected primarily for survival.

Before indulging in a detailed description of this property, we should specify which qualities should be sought in an ideal survival structure and location. The structure itself should offer security against as many threats of force as possible, including those of a military/political, meteorological, and seismic nature. It should not project a "bunker" or "fortress" image by its external appearance, so as not to draw public attention and envy in times of difficulty. However, the home should offer unobstructed outside views on all sides for security. The structure should have the capacity to be energy-independent. Meanwhile, it should be spacious and pleasant enough to comfortably sustain the anticipated number of people for as long as necessary. Optimally, the dwelling should be able to store internally all of the food, water, and other supplies necessary to see its occupants through whatever crisis may develop. Lastly, given all of the above requirements are met, the dwelling should be one that you would enjoy living in should you need to make it your home on a long-term basis.

The location you choose should be sufficiently distant from military bases, large metropolitan areas, and any other nuclear or terrorist targets. The area should offer moderate temperatures, good growing seasons, and a nearby abundance of key natural resources (i.e. wood, game animals, water). The local population should contain a goodly number of skilled craftsmen



and key professionals. In this interest, you are specifically looking for doctors, dentists, mechanics, carpenters, plumbers, electricians, farmers, tailors, gunsmiths, and any other tradesmen who specialize in skills you may need but have not already acquired. The local area should have the capacity to be self-sufficient from both a food production and power supply standpoint. The local economy should be as diverse as possible. Local economies dependent on a steady infusion of government contract funds or the continued prosperity of a single large industry should be avoided.

Other preferred characteristics include a population which promotes self-sufficiency, gun ownership, and individual liberty.

Most importantly, the location selected should not come to mind as a well-known getaway spot to outsiders. In this interest, popular resorts, hunting, camping, or other recreational areas should be avoided. While there are other more esoteric considerations, those listed here provide excellent survival location guidelines.

THE LOCATION

Turning now to the estate Survivalist Clearinghouse is offering, we begin with the location. The estate was built in St. Johns, Arizona, a rural town of 5,000 residents located at an elevation of 5,740 feet in eastern Arizona's White Mountain area. This area defies the image of Arizona's endless desert and rugged mountain terrain. St. Johns is located along the Little Colorado River and is surrounded by fertile soil which supports an extensive agricultural base. Where livestock is not grazing, fruit orchards and vegetable plots abound. While the area enjoys four-seasons climate, temperatures remain moderate. Snow is seldom seen in the winter while summer temperatures rarely exceed 90°F at this elevation. Weatherwise, St. Johns leads a charmed existence.



St. Johns, Arizona is approximately equidistant from three large metropolitan areas - Phoenix, Az., Tucson, Az., and Albuquerque, N.M. Each of these cities, as well as any military bases, are just a little over 200 miles away. St. Johns is quite busy for a town of its size. It is the county seat of Apache County. The fairgrounds located in St. Johns hosts a number of events throughout the year, including horse racing, rodeo events, olympic equestrian team trials, as well as the county fair in September of each year.

Recreational facilities permeate the nearby area. Concho Valley Country Club offers golfing just 20 miles away. Arizona's finest snow skiing is less than an hour away at Sunrise Ski Center. You can keep your rifle and pistol shooting skills well honed at the Apache County Gun Club shooting range just a few miles south of town. And, if you like hunting, there are deer, antelope, elk, wildcat, wild turkey, and rabbit just waiting to be bagged throughout the nearby area. Five nearby lakes offer bass and trout fishing, as well as water skiing and motorboating fun. Then there is the St. Johns city park with its brand new swimming pool,

racquetball courts, playground areas, tennis courts, and very nice picnic facilities on its well-manicured grounds. With so many nearby ranches and stables, you will find horseback riding to be very commonplace throughout the year. And, if you ever wanted to learn how to fly, you will find instruction available at the St. Johns Municipal Airport.

The people in the area are a very self-reliant, down-to-earth lot. Most of the larger families in the area are descendant from the original Mormon settlers who came to this area in the late 1800's. Consequently, most local residents were brought up respecting the wisdom of having a one-year food supply stored in their homes. You will find your neighbors to be industrious, civic-minded, and family-oriented.

St. Johns has a regular array of civic organizations and activities, including Kiwanis Club, Rotary Club, VFW Post, Boy Scouts, Girl Scouts, Little League Baseball, Soccer, and Football, Fine Arts Association, and a host of special interest clubs. Both the Mormon and Catholic churches sponsor a wide variety of activities and shows throughout the year, especially during holidays.

Perhaps the most remarkable aspect to the local population is the tremendous emphasis placed on education and related facilities. All of the schools in St. Johns, from kindergarten through high school, have either been constructed or renovated within the last 4 years. The junior high has recently purchased a substantial number of computers for student education and has been the site of a newly-constructed wing. The elementary school is about to undergo a major construction expansion. The high school boasts a brand new \$7 million multi-purpose auditorium, utilized not only for school events but other civic activities, as well.

As regards the location, St. Johns offers every amenity you would seek in a town of 5,000. It is a virtual paradise for outdoor recreation. And, you know practically everyone in town on a first name basis. St. Johns is a wonderful place to raise children and, after living here awhile, you get to feel as though still today it would make the perfect setting for more Norman Rockwell paintings. What makes this area so ideal for a survival estate is that, for all of its virtues, the St. Johns area is still relatively unknown - even within the state. This is one of the reasons why Survivalist Clearinghouse regards this particular location so very highly.



THE ESTATE

The survival estate was built in 1982 on 4.33 acres of nearly flat open land. This particular land parcel was selected for the fact that a fast-flowing canal passes right through the middle of the property. This makes water for trees and lawn quite accessible and, of course, provides you with one of the most crucial resources during a time of crisis. This canal has already been providing water for the 20-tree fruit and nut tree orchard planted

on the estate property on the other side of the canal. By the way, the canal's water is fed from mountain snow-melt and rain - all fresh water sources and extremely rare to be found running through private property anywhere in the state of Arizona. Otherwise, no sizable trees exist near the home so that you have unobstructed views in all directions.

The home was designed by the Survival Homes Corporation of Hood River, Oregon while it was still in business. It is a unique design incorporating a spacious 4,255 sq. ft. on three floors. Upstairs there is a very large master bedroom with a large walk-in closet and master bath. Master bedroom lighting is recessed into the ceiling and rheostated. The upstairs also has three additional bedrooms as well as another full bath. All the bathrooms throughout the home feature custom oak cabinetry and cultured-marble vanities. Each bedroom has large closet space and the upstairs hallway offers two good-sized linen closets.

On the main floor we find the living room with its cathedral ceiling and stylish zero-clearance fireplace. The fireplace is surrounded by a beautiful floor-to-ceiling custom brick hearth. And, again, the living room lighting is recessed into the ceiling and rheostated. Walking on, you next come to the kitchen, with its beautiful custom oak cabinetry. The kitchen has a 19.1 cu. ft. side-by-side Whirlpool refrigerator/freezer, Monarch 6-burner triple-fuel range, KitchenAid automatic dishwasher, disposal, and nice wood formica countertops. Especially convenient is the kitchen-dining room pass-through for serving meals. The dining room is spacious and has an ideal location for your china hutch. An attractive brass-tone, crystal chandelier lights the dining room.



Elsewhere on the main floor, the library has beautiful built-in custom oak wood shelving. The library also has room for your desk. Next we come to a convenient half-bath and then the laundry room. Included with the laundry room are a Sears Kenmore washer and dryer and free-standing utility sink. Access to the garage area is on this floor and the two-car garage features separate door openers for each bay.

On the underground basement level, his & her offices are found. These rooms can become bedrooms if the owner would rather have an office or two on the top floor. Then there is the TV-den area, again featuring recessed lighting and beautiful custom brickwork on one wall. The basement has a large workshop area, off of which you have a separate computer room which could also be an excellent location for a sewing center. The furnace room features a triple-fuel Yukon 186,000 BTU furnace which is more than enough to heat this large home.

Overall, this home creates a very pleasant atmosphere. Soft music flows through all the rooms by way of a built-in intercom system. Wall-to-wall carpeting complements the individual pastel color shades of each room. Fluorescent lighting brightens work areas (offices, kitchen, workshop) while softer incandes-

cent lighting is found elsewhere. The stairways have indirect recessed lighting along the steps. A first class satellite television receiving system brings the world's entertainment directly into your TV-den area. As you enter this home, you immediately sense that it is special. Once you own it, you will feel a special uncommon pride.



UNIQUE SURVIVAL AND ENERGY-EFFICIENCY FEATURES

The unique construction methods employed when this home was built give it substantial survival and energy-efficiency properties. First, the exterior walls were constructed of cinder block which was grouted solid with concrete and reinforced with ¼-inch rebar steel. To this was bolted a wood frame and special airtthane insulation. On top of this, the redwood-stained siding was attached. While the home has an exterior appearance of conventional frame construction, the exterior walls are actually 16 inches thick and bulletproof! Meanwhile, the walls possess R-30 insulative value and, due to their mass and thickness, possess thermal mass properties. This helps keep interior temperatures within a narrow range while outside temperatures may fluctuate considerably. The ceilings have R-50 blown cellulose insulation and all of the windows are thermal pane.

Personal and property protection is further enhanced by a 4-way internal security system which is monitored 24 hours a day by a nearby central station. The home is monitored by sensors which detect intrusion, glass-break, and fire at all times. Further, there are two portable panic buttons which will summon police right away, just in case you hear something suspicious. The system even operates on its own internal power source in case of a power failure.

For the ultimate protection, the basement has a separate 512 sq. ft. bomb shelter complete with its own internal water supply. This bomb shelter is totally invisible from the regular basement living area and is encased in poured cement. Access to it is available only through two large steel security doors. With dimensions of 25' x 20½', you will find this bomb shelter most comfortable even with all your storage food and other supplies stocked in it.

Independent internal water supply is achieved in two ways. The first is through an underground hydrodynamic system. You can access the water through a furnace room well and it flows at an average rate of 40 gallons a day- more than enough for drinking, cooking, and sanitation needs during a crisis. Better still, this system operates without a power source, as it is totally gravity-fed and never runs out. Additional water is available by means of an in-line 1,000-gallon galvanized steel water storage tank. The water is constantly replaced since it is part of the regular water supply flow to the home. This water comes through a gravity-fed spigot in the basement.

The home's heating needs are handled by propane gas. There are two 570-gallon tanks connected in tandem to the home. With both tanks full, you can handle all of your heating needs for over a year without refueling. And, if wood is used for space heating, the tanks will last for over five years of cooking and water heating. Speaking of water heating, the home uses an European-style tankless water heater. This saves about half of the gas normal gas water heating would consume and provides virtually limitless hot water. Meanwhile, gas is used for cooking on 4 burners of the kitchen range. The other two burners can cook with either wood or coal fuel. Lastly, the furnace uses gas to provide space heat in the winter. However, the same furnace can burn either wood or coal to satisfy the same space heating needs. Additionally, the living room fireplace is equipped with a space heating fan, in case you prefer to use it instead of the furnace.

Energy independence is made total by the 7,000-watt Dayton generator located in the basement generator room. This generator is wired in-line to the home's electric system and, in the stand-by mode, will come on to provide power critical electric needs (refrigerator/freezer, key indoor and outdoor lighting, etc.) within one second of a power failure.



YOUR OPPORTUNITY

The price for this entire survival estate is \$296,000. For this price, the buyer will be purchasing not only a magnificent home on a generous acreage of land in a beautiful rural town, but very likely the future physical well-being of himself and his loved ones. Better still, you will be acquiring one of the finest examples of state-of-the-art survival construction all masterfully integrated into a most comfortable home. As beautiful as this home is both inside and out, make no mistake about it - this home has been designed and constructed to see you through Armageddon and any lesser crisis. There are still additional truly extraordinary survival features associated with the purchase of this estate, but discretion prevents Survivalist Clearinghouse from mentioning them here. Once the buyer is determined, though, these additional aspects will be revealed, as well.

Seldom does fully-developed survival property come onto the market anywhere. A survival estate as well planned and constructed as this one will likely not appear on the market again for many decades to come, if ever. And, at such an affordable price, you are truly being offered THE OPPORTUNITY OF A LIFETIME. We at Survivalist Clearinghouse strongly recommend that you seize this opportunity right away!



Please contact Survivalist Clearinghouse offices at (602) 337-4804 for a confidential personal discussion concerning purchase of this estate.

Remington Steel:



Stiletto

Hand crafted from the finest materials . . .

Staff Report

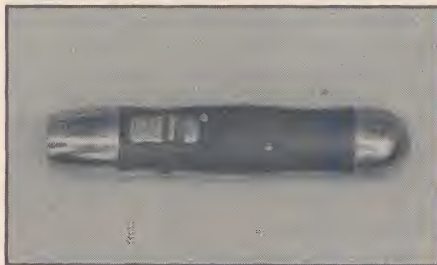
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The stiletto features a hardened steel trigger mechanism and fast ejection and retraction of the blade.

Overall length is 9 1/4 inches opened. The blade is 1/8 by 3/4 by 3 7/8 inches. Weight is 12 ounces. Handles are hand finished walnut. Optional handles and Damascus steel blades are available.

The standard model is \$149.95 plus \$2.50 shipping and handling. Damascus blade model is \$249.95 plus \$2.50 shipping and handling from Remington Steel, Dept. ASG, R.R. 2, Box 45, Remington,



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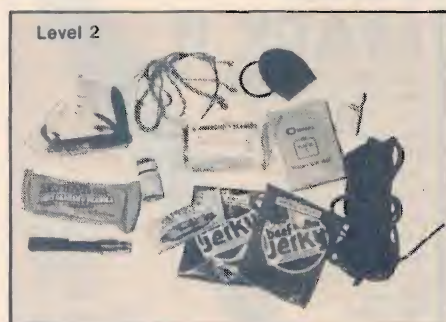
The Integrated Survival System

For the needs of survivalists, outdoorsmen, military personnel, etc. . . .

By Jerry Younkens



Level 3



Level 2



Level 1

SPORTS International of Palm Bay, Florida, has introduced a new trio of survival kits called The Integrated Survival System, each kit compounding the effectiveness of the other.

Ron Cagle, president of Sports International, is the designer of this system. Cagle was a paratrooper in Korea and has lived and hunted all over the world.

No kit can possibly provide for the entire range of situations or conditions encountered in the out-of-doors. Ron concluded that the answer was to attack the problem on a statistical basis and create an "integrated" series of kits that would expand to fit the user's needs.

The Sports International trio are housed in three LC-2 pouches of varying sizes. The smallest is the bandage or compass pouch, the largest is a buttpack which most vets will be familiar with. All levels use ALICE clips and can be attached to harness, pistol belt, backpack or trouser belt. For optimum efficiency the pouches are designed to be carried on the military belt and harness system.

There are seven primary survival needs, excluding self defense. These include 1. medical and health, 2. insulation and shelter, 3. firebuilding, 4. water, 5. food and food gathering, 6. orienteering and orientation, and 7. signalling. Each level of

the integrated system accounts for each area of need.

Level I is the basic building block and focuses on absolute prerequisites. This level is mandatory for belt or pocket on any outing. This is a tight package and like the other packs in this system contains no dross or filler but only top quality items. This extends from the Perry whistle to the Silva compass and the Explorer 12-function survival tool.

Level II is a significant expansion of capability and time. The Level I and Level II combination is designed to support one individual for 48 hours or two people for 24 hours. Additionally, it will support one individual for up to 96 hours and finally it will support an individual at the subsistence level for up to 10 days.

While Level I and II of the integrated system enhance the basics, Level III goes into detail. An example of its application would be the forced landing of a light plane or a breakdown of your fourwheeler in an area totally off the beaten track.

The medical capabilities of this level include the addition of a Traumatic Bandage (a real lifesaver if seriously wounded). Additionally, equipment is provided for minor surgery and suturing. The food includes two pounds of rice and one pound of miso, a high protein soy paste used to make soup or stews. The two man tube tent and the thermal blanket extend the range of comfort dramatically. A sophisticated signal kit contains aerial flares and smoke devices. The Air Force Survival Manual AFM-64-5 is included and coincides with Ron's admonition that the individual should obtain all the information and skills necessary and acquire and use top quality equipment.

All the Sports International Paks have been designed to meet about 85 percent of the survival situations one would expect to encounter. Each individual needs to tailor any prepacked kit to his own expected needs. This may mean adding prescription medicines or a bottle of DEET for that back country trout trip.

The Sports International Integrated Survival System is the result of a great deal of planning, analysis and practical experience. The Paks are superbly designed and all contain quality components. The system is universally applicable for the needs of outdoorsmen, survivalists, military men and martial arts practitioners and is an excellent investment.

The Level I Pak retails for \$18.95. Level II for \$38.95 and Level III for \$88.95 plus \$1.05 shipping and handling charges for each pak. The paks are available in black, OD or camo. The belt, harness and other auxiliary survival equipment are available through the Sports International Catalog. To order or for more information contact: Sports International, Inc., Dept. ASG, Box 458, Palm Bay, FL 32906-0458. ●



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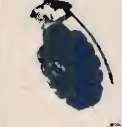
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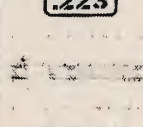
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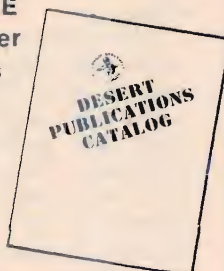
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Navigation:

Brunton Compasses

The standard by which other compasses are judged . . .

By Bob Clark and Bud Lang



BELOW — Brunton's new Elite is tagged as "The Survivor's Compass." A truly professional unit, the compass features liquid filled vial, adjustable declination and state-of-the-art cobalt steel needle. Body of the Elite is made of durable plastic. Face of closed case carries all important wind chill factor chart.



only possible from a completely new design.

The Classic weighs but 5.5 ounces, is waterproof, and features specially developed composite materials and a radically new magnet system. It's easier to use and more accurate than most other compasses on the market.

Here's what makes the Classic stand out above all other compasses. This instrument combines the principles of a surveyor's compass, a prismatic compass, a clinometer, a hand level, and a plumb. It may be used to determine azimuth angles or compass bearings (and thus to determine horizontal angles) to measure vertical angles, percent of grade or slope, to run levels and to measure the inclination of objects.

This compass contains a magnetic needle that aligns itself with the earth's magnetic field. This causes the needle to point to the magnetic North Pole of the earth. The needle is induction damped which allows the needle to seek north and come to a complete rest in a minimum amount of time without degrading the accuracy of the reading.

The azimuth or bearing is read directly on the compass circle with the compass needle acting as the pointer. This direct

IT was in 1896 that D.W. Brunton invented the world's first pocket transit (a very sophisticated compass). Way ahead of its time, this directional instrument helped professional surveyors map the West. Not only was this compass exceptionally accurate, but it was designed to withstand years of use under the most adverse conditions. That was 90 years ago and while we don't know if one of D.W.'s offspring is still carrying the original, we do know that Brunton engineers have continued to dedicate themselves to the same

tradition of quality and longevity.

Now for the first time since the original Brunton was introduced a completely new compass has been created. There have been many design improvements over the years but never a design from scratch.

That all-new compass (transit) is the Brunton Classic F-5008, a waterproof instrument that takes advantage of the latest in state-of-the-art magnetics, mechanics, materials and manufacturing processes. All of this has brought about an instrument with features and advantages



Flip up mirror for sighting, range finder scale, clinometer, forestry map scales, and built in thermometer are conveniently built into compact package.

reading method is known to be the most accurate way to obtain an angle with a magnetic compass. With this method the compass circle is numbered in reverse. East and West are therefore interchanged and the numbers run 0 degrees to 360

degrees counterclockwise. This allows the magnetic needle's north seeking tip to point directly to the angle on the compass circle to which the large sight of the compass is pointing.

A phenomenon known as magnetic declination is something most of us must consider whenever we're using a compass. This is because the magnetic needle of your compass points to the Magnetic North Pole. This pole is located in the upper Hudson Bay region of Canada and its position changes slightly from year to year. The True North Pole is located geographically. Maps and directions are based on True North since it never changes, but this is where we can get into trouble.

Because these two poles (magnetic and true) are miles apart, if you happen to be standing at a point on the earth that is in a direct line with these two poles, and you use a compass, you have nothing to worry about because when your compass points at Magnetic North, it is also pointing at True North. This would be true if you lived around Nashville, TN, Terra Haute, IN, or Milwaukee, WI, all essentially along an imaginary zero declination line.

But most of us don't live near this line. People up in Bangor, ME, find themselves about 19 degrees to the east of this line, while people in Bend, OR, will find themselves about 19 degrees to the west of the line. People in Bangor using a compass will find it pointing west of True North, while those in Bend will find their compasses pointing east of True North.

The Brunton Classic compass combats this problem by allowing you to rotate the

compass circle to compensate for the magnetic declination of your area. Thereafter, when you take a compass bearing, you'll be getting an exact True North heading.

Other benefits to be derived from this compass include your ability to measure vertical heights such as trees or cliff faces, determine the inclination of an object, use it as a hand level, and a plumb bob to check vertical objects.

Another compass that is worth considering is the Brunton F-8040 Elite, better known as the "Survivors Compass." This is a true professional-level compass with state-of-the-art cobalt steel needle, permanently clear liquid filled vial and adjustable declination ring. This model also features a built-in thermometer, wind chill chart, range finder scale, clinometer, forestry map scales, clear base with protractor, lanyard with inch markings. You can't ask for much more than this in a compass. It also comes in a black nylon sheath with Velcro closure, extra pockets and pen holder. Also included are waterproof survival information cards. The Elite is ideal for working with topographic maps because it features a long base plate, magnifier and protractor.

Whichever of these units you might choose, you can be sure that either will help you find your way in the event you stray off known trails, paths or roads.

Brunton Compasses are available at finer sporting goods stores nationwide. If you would like further information or the name of a dealer in your area write to: Brunton Co., 620 E. Monroe, Dept. ASG, Riverton, WY 82501. ●



The Elite is supplied with nylon sheath. Enclosed in the sheath is a lanyard with inch markers and handy waterproof survival information cards.



ABOVE — Weighing a mere 5.5 ounces, this surveyor transit is very possibly the most accurate and easiest to use product of its type.

LEFT — Top of the line Classic is unparalleled in its class. State-of-the-art design and construction feature specially developed composite materials and a radically new magnet system. Prismatic incline sighting offers superior accuracy. Other features include horizontal and vertical angle measurements, jeweled movement, waterproof and accurate to 1/2-degree, 0-360 degree azimuth ring, leather case and lifetime guarantee.

Pain Relief:



The Toothache tree is a roadside source of pain relief, medicine, seasoning for foods and other survival aids.

Toothache Tree

This plant has a broad spectrum of medicinal usage beyond dental ailments . . .

By T.R. Zimmermann

PHOTOS BY DENNIS ELLINGTON

UP AND DOWN the roadsides, along fence rows of pastures and farms, and in the woodlands of the southern United States grows the toothache tree. It is a small tree or large shrub with beneficial medicinal properties. Especially for those who suffer from toothache pain and have no immediate access to modern dental care, as may occur in a survival situation.

Although it prefers the dry soils of open areas, the toothache tree can be frequently seen in the forested regions of warmer climates of the world, including Mexico, Central and South America, and Africa. A member of the genus *Zanthoxylum*, it is well known by many common names: prickly ash, tickle tongue, pepper bark, hercules club, rabbit gum, correosa, and

aceitillo.

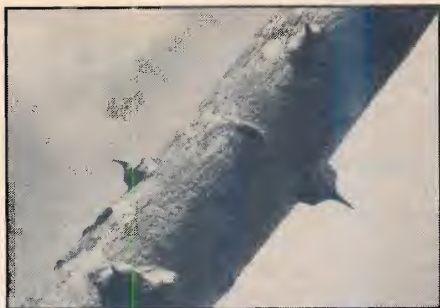
The deciduous tree may grow up to 18 feet tall and has a loose crown of glossy, pale green pinnately compound leaves. The leaves give off an easy to identify peppery smell when crushed. In the spring, dense clusters of tiny, fragrant greenish yellow flowers cover the branch tips and in the fall, pea-size, pitted black fruits dot its bare branches. The smooth bark of stems and trunk are liberally coated with corky warts tipped with sharp, slightly curved thorns. A clear, watery sap will ooze from cuts in the bark.

It is the simple "taste" test that quickly determines the toothache tree's amazing property from that of its neighbors. If a marble-size portion of the inner bark, leaves, flowers, or fruits is chewed, an

intense numbness or tingling sensation to the tongue and lip is instantly felt. No other tree has this unique ability.

A comprehensive phytochemical analysis has exposed its secrets. All parts of the aromatic tree (roots, sap, bark, leaves, flowers, and fruits) contain the following principles: zanthoxyli, coumarin, sesamin, and various minor resinoids. A very pungent resin, zanthoxyli has a complex chemical structure and properties similar to the commercial product benzacaine.

Coumarin and sesamin are toxic glycosides with documented pain reducing abilities. Coumarin is found largely in the leaves, and in concentration can destroy the clotting mechanism in human blood. Hence, only measured amounts of the tree should be utilized in the treatment of



The bark is smooth with corky warts tipped with sharp, slightly curved thorns, which are a good identification aid even in winter.

toothache pain to prevent accidental ingestion and unpleasant poison reactions.

Toothache Treatment—For relief of toothache pain, gather a fresh leaf and roll it into a tube. Moisten the tube-leaf with salvia and crush thoroughly between your fingers to form a paste. Insert the paste directly onto the affected tooth and hold in place against gum and inner cheek until the agonizing pain diminishes in its intensity. A copious amount of salvia is secreted due to the paste's chemical properties and must be spit out, as swallowing may lead to vomiting and gastrointestinal irritation. In winter, use fruit or bark to make the paste.

Pain relief may last for a few minutes to several hours depending upon the location in the mouth of the decayed or injured tooth, the condition of the tooth and its surrounding gum, the physical state of the individual's health, and his variable tolerance to pain. An abscessed tooth is a localized infection and has complications that may block the paste's ability to relieve pain. For better results, treat the infection and the accompanying symptoms first before applying the paste to the sore tooth.

Another hazard to consider is the consumption of alcohol while using the paste. An old timer's remedy for treating toothache, it is not recommended in the treatment of any dental complaint or with any kind of oral medication. The ingested alcohol causes counter effects and may

accelerate the toxicity of the medicine.

The toothache tree has a broad spectrum of medical usage beyond dental ailments. The sap applied locally relieves surface pain, and in the tropics has seen use as a topical anesthetic in the jungle surgery of knife or machete injuries, gunshot wounds, the setting of broken bones, and in snake bite treatment.

A wet paste made of bark powder and warm water is antibiotic in nature, and is painted onto sores, ulcers, infected tick bites, cancer and tumors. An innerbark tea has a double value as a wound antiseptic and for a soothing wash on skin irritations or swellings. To gain relief from the misery of diarrhea, drink a few cups of dilute bark or fruit tea every four hours or as needed.

Research into the antigerm or antimicrobial abilities of plants helps in understanding how they work, which germs they affect, and how best to apply them outside the laboratory. An antimicrobial study of the toothache tree reveals it to be an important viable source in the search for new antibiotic tools to combat infectious diseases.

In cultured medias, an ethanol extract of the bark markedly reduced the population levels of gram positive and gram negative staining bacteria, yeast, and mycobacteria. All are representatives of the worst scourges afflicting mankind today, such as: pneumonia, plague, influenza, typhoid, tuberculosis, dysentery, septicemia (blood-poisoning), etc. The bark extract made into a purified pharmaceutical drug exhibits definite anticholeric properties and has shown great promise in the battle against cholera.

The toothache tree has many lesser known uses valuable to the survivalist. Its flowers, leaves and immature fruits are a food source. The intense heat of cooking dispels their toxic principles, but even so they are mainly limited to the role of culinary preparation or as food flavoring. Young leaves added to meat dishes or

stews made of wild game tames the tangy, offensive taste some animals exude while cooking, and makes the meal more palatable. Powdered fruits or bark are excellent substitutes for black pepper, and in many areas of the tree's range of distribution, the local inhabitants utilize it solely for that purpose. A specially processed extract of the fruits has economic possibilities as a preservative of perishable foods, and in the preparation of leather products for wear in tropical climes.

Insecticide—In the home garden, a dilute extract of the sap in combination with pyrethrum becomes a powerful natural insecticide for use against aphids, mites, and parasitic insects that prey upon succulent food plants. A yellow dye made by boiling the roots has dual uses, as an herbicide to control the growth of undesired weeds and as a nematocide to kill destructive root-parasitizing nematodes. Bark tea sprayed on fences and borders enclosing the garden or orchard helps to deter the activities of rabbits and other foraging animals.

The hunter who bathes or rinses his hair with the dilute bark tea before the hunt will improve his ability to stalk game without easy detection. Wire snares, metal traps, footwear and clothing soaked in a tube filled with bark tea increases the trapper's skills to bag more fur-bearing animals. The tea acts as a descending agent to neutralize or mask our human scent. It is man's smell that creates wariness and fear among wild animals.

A thick slurry of fresh pulverized bark and water is a highly effective fish poison. Two gallons of slurry stirred into a shallow pond or into little ponds of intermittent creeks stuns all the fish within a 20-foot radius. Ideally, the water temperature should be 60 degrees F. and above, and the depth less than four feet to allow the poison to diffuse equally.

Using this method, the fish are easily

(Continued on page 62)



The pinnately compound leaves give off a peppery smell when crushed.



The author demonstrates how to prepare a leaf as a pain-relieving medicine.

Part IV:

Survival Kits

The last of a series of articles on putting together your own kits to serve your particular needs . . .

By Hal Gordon



ABOVE—Choose one or two survival manuals to fit your situation. Paperbacks are small and light enough to carry in your pack.



LEFT—Examples of compact weapons which can be stored in kits are the AR-7 .22 rifle which stores in its stock, a folding trigger Belgian .25 caliber handgun, and a North American Arms .22 handgun.

BY NOW you can see that there is a lot more to preparing survival kits than might at first be thought. Planning strategies, introspection, self-evaluations, study and research. It's tempting to simply shop for the most interesting survival articles and put them into a box and then rest on that box for future security. But we may be judged in one way or another on some future date by what we have put into that box.

In this final part we'll briefly discuss some important kit strategies.

Personal Protection—Because most kits will be highly portable, weight and size limitations become important. Long guns are both relatively large and heavy and so is the ammo. For the compact kit the best selections might be the AR-7, the mini-.22 cal revolvers or the Charter Arms super-light Bulldog .44 Special.

A sheath knife can make an excellent spear or lance when fitted to a pole. There is the electric stun gun, electric prods and

the electronic camp intruder alarms. You have only to pursue the pages of *ASG* to see the possibilities.

Repair-Maintenance—To fight tears, wear, splits and breaks the following will cover most problems: ripstop tape, seam sealer, wire, glue, files, pliers, scissors, cloth tape, clamps, crescent wrench, oil/grease, water-proofing liquids and maybe nails.

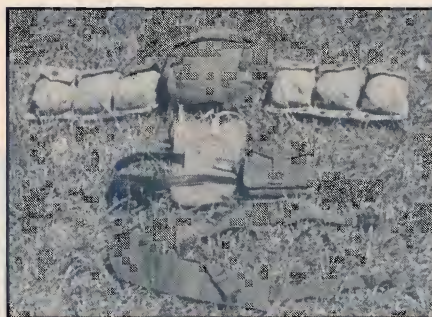
Light—This should double for both signalling and night viewing. Candles, kerosene and carbide lanterns do nicely. Electrical lights should be of the hand-powered generator type. Personally, I don't care for the chemical "glow-sticks" because of their size compared to light output. For a retreat or trunk-size kit, consider a hand-foot cranked generator to power not only lights, but a radio as well.

Survival Manuals—As you may have noticed previously, I'm a believer in having a small, light manual which covers more than I can remember. With no knowledge or experience, but armed with a knife and a survival manual, a person can overcome most adversities. An experienced outdoorsman can still profit from diagrams of traps he's never had a chance to try.

Here are my recommendations for three books: Larry Olsen's *Outdoor Survival Skills*; you won't even need a knife for this one; *The Survival Book* by Nesbitt, Pond and Allen, not up to date, but very small and very light in paperback; my favorite is *How to Survive On Land and Sea*, by Frank and John Craighead as revised by Smith and Jarvis. This is the oldest all-around manual, but has been updated since the early 1940s. This last edition has more information than any other single manual.

Health-Sanitation—It's difficult to create good health from bad. It's easier to maintain good health from a healthy body. If you want to call your body the ultimate survival kit, then start there and spend most of your survival dollars on the "body kit."

Bacteria, viruses and defective body



TOP, ABOVE & RIGHT—Some examples of containers for different size survival kits are surplus military canvas pouches, backpacks and heavy duty chest and trunks.



chemistry are constantly lurking, ready to pounce on the first weakness they can spot. Stay healthy!

Make sure you have toilet paper, alcohol, soap and a face cloth in your "sanitation" kit.

Vehicle Repair Kit—This might seem an obvious choice, but among the most knowledgeable, I frequently find this preparation completely missing. The most often required parts are also the cheapest: radiator leak additive, hoses, tubing, clamps, tapes, belts, gas can, extra oil and water, brake fluid, gaskets, shovel, chains, hand winch, flares—to name a few. After the basics, add a water pump, fuel pump, and alternator. In my area, many pickup trucks are fitted with two batteries; the extra one is used to run small power tools in the field.

Containers—Most often your survival kit will be carried in the pocket of your shirt or pants. If you can decide ahead of time exactly what pocket you'll be wearing in the field, you can select a container to fit that pocket exactly, thus giving you the maximum comfortable space. Practically everything and anything can become useless if exposed to moisture-laden air long enough. Shiny metal boxes can reflect sun, boil water and prevent the contents from being crushed.

Moisture proofing your kit isn't too hard; some of your choices are: hot seal plastic bags, metal containers with tongue-and-groove closure or screw caps. For larger receptacles, you can use fiberglass over plywood. Underground caches should not be too large; a good strategy is to make several smaller containers to avoid discovery or having all of your goods confis-

cated at once. You can use PVC water pipe as shown in *ASG* articles.

Because I employ many different sizes and shapes in making up my kits, I found that covering the various contents with hot wax-impregnated cloth works very well. The covering conforms closely to the different shapes leaving little room for moisture. To keep the surface from cracking I use a mixture of eight parts paraffin with one part petroleum jelly. By cutting this covering into thin strips, your average kit can supply you with as many as a hundred fire-starters or candles.

Special Tools—Consider all the possible events that could arise in your life and within your selected environment area. For instance, if you travel frequently in ranch country, you might eventually need a pair

(Continued on page 63)

Survival Kit Checklist

This cannot be a complete list because of so many variable factors. The first aid section should be built up more completely as you gain knowledge of medical practice. Most drugs are not storable at room temperatures for long periods. Consider them for specific field trips with your doctor's advice.

FIRST AID:

Personal Basic Kit:

Compress
Gauze
Band-aids
Butterfly sutures
Bandana
Tape, cloth
Razor blades
Tweezers
Alcohol
Aspirin
Scissors, small
Suture kit
Antiseptic
Disinfectant
Germicidal soap
Chapstick
Sunburn lotion
Needles, sewing

Advanced Kit:

Petroleum gauze (burns)
Surgipad dressing
Triangular bandage
Eye pads, sterile
Air splints
Cast, instant set
Hemostats
Thermometers: oral
rectal
Otoscope: throat
Stethoscope
Blood pressure
Throat sticks
Plastic gloves
Burn kit
Snake kit
Dental kit
Insect kit
Drugs: eye
pain
heart
diarrhea
disease, misc.

Foot Care Kit:

Elastic wrap
Tape, cloth
Tape, elastic
Pads, corn-bunions
Band-aids
Alcohol
Foot powder
Anti-fungal
Heel cup, plastic

WATER:

Solar still
Vegetation still
Containers, plastic
Sheets, plastic
Illustrations, stills

Bags, plastic 2' x 4'
Purification tabs
Canned water
Filter, compact
Canteens
Tubing, plastic

FOOD:

Glucose
Essential fats
Supplements: vitamins
minerals
proteins
Food, canned
dried
dehydrated
freeze-dried
grocery items
Honey, squeeze tube
Soup, instant packs
Grain, wheat, etc.

Fishline
Wire, snares
Monofilament
Matches, waterproof
Aluminum foil
Fish hooks
Fish lures
Gun & ammo
Weapon, alternative
Gill net
Net, other
Pot, metal
Cup, metal, canteen
Lures, scent
Calls (lures)

SHELTER:

Illustrations, shelters
Knife, large
Axe
Saw, wire-type
Buck-saw blade
Sleeping bag
Space blankets
Candles
Chemical heat
Tents
Mosquito netting
Sheeting, plastic
Mattress, foam/air
Ski mask
Balaklava
Face mask
Gloves-mittens
Jacket
Parka/hood
Socks, heavy wool/pile
Booties, insulated
Inserts, boots
Underwear, insulated
Hats: rain/sun
Poncho/rain gear

Head net, mosquito
Cord, light nylon
Tarp, light nylon/vinyl
Hammock, light/jungle

FIRE STARTER KIT:

Matches, waterproof/windproof
Lighters, butane
Starter fluids/gels
Plastic bags, light
Magnesium/steel wool
Knife, small
Candles, small
Wax, impregnated cloth

FUEL:

Chemical, solid/liquid
Stove, light, folding
Stove fuel: solid/liquid

SIGNALS/COMMUNICATIONS:

Flares, star/parachute
Launcher, pocket/pistol
Mirror, steel/glass (hole)
Whistle
Smoke, "bombs", small
Flashlight, batteryless
Illustrations of signals
EPIRB (Radio beacon)
Radio, two-way
Kite, compact
Balloon, Mylar/helium
Bright sheet, plastic
Fire capability

PERSONAL PROTECTION:

Firearms/ammo
Chemical spray
Electronic, shock
Electronic, camp alarm
Booby trap triggers
Knife
Staff/spear/cane
Radio, two-way

REPAIR-MAINTENANCE:

Tape, rip stop
Tape, cloth
Seam sealer
Wire, steel/copper
Glues
Resin, two-part
Pliers
Screwdriver
Wrench
Scissors
Files
Clamps
Lubricants

LIGHT:

Flashlight, waterproof
Flashlight, batteryless

Candles, long-burning
Lantern, candle
Lantern, mantle
Fuel
Fire capability
Glow sticks

SURVIVAL MANUALS:

All-around
First aid
Desert
Cold
Illustrations for:
stills
traps
shelters
signals
Special
Equipment manuals
Microfilm & reader

HEALTH-SANITATION:

Doctor's examination
Toilet paper
Alcohol
Trowel, plastic
Nutritional supplements
Soap
Face cloth/towel
Toothbrush
Personal needs

TRAVEL:

Maps, local
Maps, objective area
Compass, wrist
Compass, other
Machete (Jungle)
Rope, 1/4" nylon
Climbing gear:
pitons
carabiners
wedges
rope
Shoes/boots (comfortable)
Snow goggles, folding
Illustrations, improvised shoes
Water travel:
inflatable boat
flotation devices
Snow, shoes
Snow, skis (X-country)
Pack, comfortable
Light (night travel)

VEHICLE REPAIR:

Tool kit
Spare kits
Winch, and
Survival kit
Traction kit
Fuel, extra
Tires, extra/repair

Jumper cables
Water, extra

AIR:

Avalanche, position-finder
Airway, plastic
Oxygen eq pt.
Compressed air
Mask
Tubing, plastic
CPR instructions

CUTTING TOOLS:

Knives:
small folding
folding-locking
sheath
Swiss army-type
razor blades
scalpel blades
Axes, small/large
Files, flat, round, triangular
Saws:
wire
hack saws
pruning
hand-rope chain saw
buck-saw blades

OCEANS-LAKES:

Sunglasses
Flashlight, batteryless
Flares, parachute
Smoke, large
Dye
Bright sheet
Canned water
Solar stills
Reverse osmosis filter
Salt tabs
Containers
Exposure suit
Floating knife
Charts
Compass, quality
Time piece, accurate
Raft, survival-type
Flotation, personal
Net, dip
Fishing kit
Nutrition kit
Energy food
EPIRB (Radio beacon)
Gaff
Harpoon
Gigging hook/spear
Sunburn lotion
Tarp, sun-screen
Kite, radar reflecting
Balloon, radar reflecting
Paddles
Sail kit
Sea anchor & line
Raft, inflatable

Combat Survivalists:

Forcemen

These individuals stand ready, should war or some other upheaval occur . . .

By William J. Conti

AS TIMELY as computers, and as old as the seas, so is the struggle for survival. From spearheads to warheads, it has usually been a priority of the military man, but today civilian populations of the world are also taking upon themselves the survival of holocausts, be they natural or man-made. These people are preparing, planning and training to survive, rise again and start anew.

In the past few years, a different type of survivalist has come on the scene; the combat survivalist. They consider themselves the protector/aggressor force for their survival community, or for others needing their expertise in the field of combat.

These protector/aggressor forces organize and operate under various titles, such as No. 5 Commando, The Blackbirds, Union Protection Group and the Michigan Area Rescue Squad, to name a few. For the purpose of this article, members of these combat survival forces will be known as forcemen. The article will discuss the forcemen, their training, ideology and future. It will point out their way of combat thinking.

The first point many private forces wish to clear up, is that they do not consider themselves paramilitary and have no formal rank structure, pay or politics. Some do have informal rules, bylaws or guidelines for members to follow, to bring cohesion and uniformity to the force.

But for the most part, the forceman is knowledgeable and well disciplined to function on his, or her own.

To be ready and prepared to survive, the forceman must have knowledge of the critical times he or she lives in, training and development of combat and survival skills, and the will to survive, the quality of mental preparedness that distinguishes the survivor from the vanquished.

There are many survival groups in North America, but most only touch on the subject of combat. The forceman has excelled in it. In most cases, he's probably a veteran, attended a few combat and survival schools, and perhaps is a political science graduate, or at least well informed on world affairs.



Woodland camouflage outfit, ALICE pack and CAR-15 are part of this forceman's gear.

His equipment is up to date, well-rounded and comparable to the infantryman of the American military. His equipment may include a night vision scope for his assault rifle, body armor and NBC (Nuclear, Biological and Chemical) gear. He must still be very crafty to compensate for the lack of sufficient equipment, arms and ammunition.

The forceman is well educated in the medical aspects of survival, often with training in first aid and other emergency medicine. He's his own doctor. He is well schooled in the proper applications of amyl nitrite ampules, atropine syrettes and BAL ointment for NBC protection. He has studied pharmacology and elementary surgical procedures.

His physical training may include camping, hiking and hunting. And perhaps a bit more of physical activities such as skin

diving, spelunking and mountain climbing. It is important to him to learn how to operate all types of motor vehicles, pilot a plane, and use a boat. He also tries to understand the general workings of a radio and telephone, and grasp the basics of electricity and electronics.

"I spent 22 months in Vietnam as a forward observer without ever being hit, I'll be damned if I'll let someone blow me away in my own backyard," commented Carl Sutton, a Marine Corps veteran and Illinois resident.

Sutton continued, "I'm well acquainted with civil defense procedures, martial law, and know the locations of military installations. In fact, many combat survivalists I have met, were members of civil defense units in their area."

Sutton is a cartographer and topographer, with highly detailed, up-to-date



maps of his operational area. Ground and aerial photos also come in handy for him. Land navigation and communications are **essential to the forceman**. He must know at all times his location by instruments and experience.

If an invasion by a foreign power is imminent, the combat survivalist must have

the capacity to formulate where, by land, sea and air, the enemy will strike. Upon taking American soil, the foreign invaders must be observed at all times. The forceman must also have a great capacity for observation, searching power, and constant, current knowledge of where the enemy lives, operates from, and where he

is about to move to.

"In reality," according to Sutton, "the best and trusted ally is the terrain. Only the brief and temporary change of seasons alter the terrain, but many factors can alter the disposition of a human ally. I know how to use the terrain's high and low points, its irregularities, passages, swamps and thickets to my advantage for success in attacks, retreats and hiding places."

Urban Survival—Most disasters strike without warning, and for the most part, that's what makes them disasters; unpredictable destruction. In the event of an attack, or for that matter a natural disaster, it has been estimated that between 60 to 75 percent of a large city's population will be caught in its downtown district, and in its peripheral factories and industrial parks. Included in that percentage will be a goodly amount of "head for the hills" survivalists, with their equipment, food and weapons more than a dozen miles away hidden in the crawl space of their suburban homes. A half squared away survivalist would have some emergency gear in his automobile, but can he reach it? His well planned escape scheme is crushed. There will be no putting on of his pack, and heading for the security of his private bomb shelter miles away from the burning war-torn city.

The forceman is not only trained for combat in the brush, but he is also skilled in urban warfare, or combat in built-up areas. In plain terms, he is a street fighter, and he will fight in the streets, alleys, sewers, houses; you name it. Street fighting is carried out under the most unique, unnatural conditions found in warfare. Many survivalists dangerously ignore this type of warfare training. The forceman does not.

Of course, the forceman's existence can depend on his martial skills, particularly his ability to handle firearms. Shooting becomes relaxed, systematic and second nature to him. He utilizes his marksman-

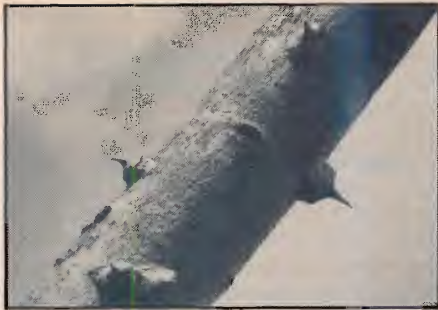
(Continued on page 68)

ABOVE—This forceman uses a PRC-10 radio for field communications.

LEFT—Combat survival equipment is carried in the trunk of a forceman's car. This gear is stored in a watertight, airtight, fireproof box.



Silent operations might involve crossbows, like the Barnett Commando shown here.



The bark is smooth with corky warts tipped with sharp, slightly curved thorns, which are a good identification aid even in winter.

toothache pain to prevent accidental ingestion and unpleasant poison reactions.

Toothache Treatment—For relief of toothache pain, gather a fresh leaf and roll it into a tube. Moisten the tube-leaf with salvia and crush thoroughly between your fingers to form a paste. Insert the paste directly onto the affected tooth and hold in place against gum and inner cheek until the agonizing pain diminishes in its intensity. A copious amount of salvia is secreted due to the paste's chemical properties and must be spit out, as swallowing may lead to vomiting and gastrointestinal irritation. In winter, use fruit or bark to make the paste.

Pain relief may last for a few minutes to several hours depending upon the location in the mouth of the decayed or injured tooth, the condition of the tooth and its surrounding gum, the physical state of the individual's health, and his variable tolerance to pain. An abscessed tooth is a localized infection and has complications that may block the paste's ability to relieve pain. For better results, treat the infection and the accompanying symptoms first before applying the paste to the sore tooth.

Another hazard to consider is the consumption of alcohol while using the paste. An old timer's remedy for treating toothache, it is not recommended in the treatment of any dental complaint or with any kind of oral medication. The ingested alcohol causes counter effects and may

accelerate the toxicity of the medicine.

The toothache tree has a broad spectrum of medical usage beyond dental ailments. The sap applied locally relieves surface pain, and in the tropics has seen use as a topical anesthetic in the jungle surgery of knife or machete injuries, gunshot wounds, the setting of broken bones, and in snake bite treatment.

A wet paste made of bark powder and warm water is antibiotic in nature, and is painted onto sores, ulcers, infected tick bites, cancer and tumors. An innerbark tea has a double value as a wound antiseptic and for a soothing wash on skin irritations or swellings. To gain relief from the misery of diarrhea, drink a few cups of dilute bark or fruit tea every four hours or as needed.

Research into the antigerm or antimicrobial abilities of plants helps in understanding how they work, which germs they affect, and how best to apply them outside the laboratory. An antimicrobial study of the toothache tree reveals it to be an important viable source in the search for new antibiotic tools to combat infectious diseases.

In cultured medias, an ethanol extract of the bark markedly reduced the population levels of gram positive and gram negative staining bacteria, yeast, and mycobacteria. All are representatives of the worst scourges afflicting mankind today, such as: pneumonia, plague, influenza, typhoid, tuberculosis, dysentery, septicemia (blood-poisoning), etc. The bark extract made into a purified pharmaceutical drug exhibits definite anticholeric properties and has shown great promise in the battle against cholera.

The toothache tree has many lesser known uses valuable to the survivalist. Its flowers, leaves and immature fruits are a food source. The intense heat of cooking dispels their toxic principles, but even so they are mainly limited to the role of culinary preparation or as food flavoring. Young leaves added to meat dishes or

stews made of wild game tames the tangy, offensive taste some animals exude while cooking, and makes the meal more palatable. Powdered fruits or bark are excellent substitutes for black pepper, and in many areas of the tree's range of distribution, the local inhabitants utilize it solely for that purpose. A specially processed extract of the fruits has economic possibilities as a preservative of perishable foods, and in the preparation of leather products for wear in tropical climates.

Insecticide—In the home garden, a dilute extract of the sap in combination with pyrethrum becomes a powerful natural insecticide for use against aphids, mites, and parasitic insects that prey upon succulent food plants. A yellow dye made by boiling the roots has dual uses, as an herbicide to control the growth of undesired weeds and as a nematocide to kill destructive root-parasitizing nematodes. Bark tea sprayed on fences and borders enclosing the garden or orchard helps to deter the activities of rabbits and other foraging animals.

The hunter who bathes or rinses his hair with the dilute bark tea before the hunt will improve his ability to stalk game without easy detection. Wire snares, metal traps, footwear and clothing soaked in a tube filled with bark tea increases the trapper's skills to bag more fur-bearing animals. The tea acts as a descending agent to neutralize or mask our human scent. It is man's smell that creates wariness and fear among wild animals.

A thick slurry of fresh pulverized bark and water is a highly effective fish poison. Two gallons of slurry stirred into a shallow pond or into little ponds of intermittent creeks stuns all the fish within a 20-foot radius. Ideally, the water temperature should be 60 degrees F. and above, and the depth less than four feet to allow the poison to diffuse equally.

Using this method, the fish are easily

(Continued on page 62)



The pinnately compound leaves give off a peppery smell when crushed.



The author demonstrates how to prepare a leaf as a pain-relieving medicine.

Part IV:

Survival Kits

The last of a series of articles on putting together your own kits to serve your particular needs . . .

By Hal Gordon



ABOVE—Choose one or two survival manuals to fit your situation. Paperbacks are small and light enough to carry in your pack.

LEFT—Examples of compact weapons which can be stored in kits are the AR-7 .22 rifle which stores in its stock, a folding trigger Belgian .25 caliber handgun, and a North American Arms .22 handgun.



BY NOW you can see that there is a lot more to preparing survival kits than might at first be thought. Planning strategies, introspection, self-evaluations, study and research. It's tempting to simply shop for the most interesting survival articles and put them into a box and then rest on that box for future security. But we may be judged in one way or another on some future date by what we have put into that box.

In this final part we'll briefly discuss some important kit strategies.

Personal Protection—Because most kits will be highly portable, weight and size limitations become important. Long guns are both relatively large and heavy and so is the ammo. For the compact kit the best selections might be the AR-7, the mini-.22 cal revolvers or the Charter Arms super-light Bulldog .44 Special.

A sheath knife can make an excellent spear or lance when fitted to a pole. There is the electric stun gun, electric prods and

the electronic camp intruder alarms. You have only to pursue the pages of *ASG* to see the possibilities.

Repair-Maintenance—To fight tears, wear, splits and breaks the following will cover most problems: ripstop tape, seam sealer, wire, glue, files, pliers, scissors, cloth tape, clamps, crescent wrench, oil/grease, water-proofing liquids and maybe nails.

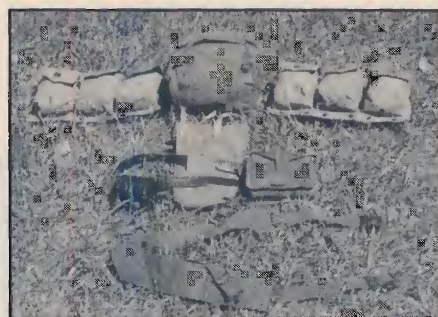
Light—This should double for both signalling and night viewing. Candles, kerosene and carbide lanterns do nicely. Electrical lights should be of the hand-powered generator type. Personally, I don't care for the chemical "glow-sticks" because of their size compared to light output. For a retreat or trunk-size kit, consider a hand-foot cranked generator to power not only lights, but a radio as well.

Survival Manuals—As you may have noticed previously, I'm a believer in having a small, light manual which covers more than I can remember. With no knowledge or experience, but armed with a knife and a survival manual, a person can overcome most adversities. An experienced outdoorsman can still profit from diagrams of traps he's never had a chance to try.

Here are my recommendations for three books: Larry Olsen's *Outdoor Survival Skills*; you won't even need a knife for this one; *The Survival Book* by Nesbitt, Pond and Allen, not up to date, but very small and very light in paperback; my favorite is *How to Survive On Land and Sea*, by Frank and John Craighead as revised by Smith and Jarvis. This is the oldest all-around manual, but has been updated since the early 1940s. This last edition has more information than any other single manual.

Health-Sanitation—It's difficult to create good health from bad. It's easier to maintain good health from a healthy body. If you want to call your body the ultimate survival kit, then start there and spend most of your survival dollars on the "body kit."

Bacteria, viruses and defective body



TOP, ABOVE & RIGHT—Some examples of containers for different size survival kits are surplus military canvas pouches, backpacks and heavy duty chest and trunks.



chemistry are constantly lurking, ready to pounce on the first weakness they can spot. Stay healthy!

Make sure you have toilet paper, alcohol, soap and a face cloth in your "sanitation" kit.

Vehicle Repair Kit—This might seem an obvious choice, but among the most knowledgeable, I frequently find this preparation completely missing. The most often required parts are also the cheapest: radiator leak additive, hoses, tubing, clamps, tapes, belts, gas can, extra oil and water, brake fluid, gaskets, shovel, chains, hand winch, flares—to name a few. After the basics, add a water pump, fuel pump, and alternator. In my area, many pickup trucks are fitted with two batteries; the extra one is used to run small power tools in the field.

Containers—Most often your survival kit will be carried in the pocket of your shirt or pants. If you can decide ahead of time exactly what pocket you'll be wearing in the field, you can select a container to fit that pocket exactly, thus giving you the maximum comfortable space. Practically everything and anything can become useless if exposed to moisture-laden air long enough. Shiny metal boxes can reflect sun, boil water and prevent the contents from being crushed.

Moisture proofing your kit isn't too hard; some of your choices are: hot seal plastic bags, metal containers with tongue-and-groove closure or screw caps. For larger receptacles, you can use fiberglass over plywood. Underground caches should not be too large; a good strategy is to make several smaller containers to avoid discovery or having all of your goods confis-

cated at once. You can use PVC water pipe as shown in *ASG* articles.

Because I employ many different sizes and shapes in making up my kits, I found that covering the various contents with hot wax-impregnated cloth works very well. The covering conforms closely to the different shapes leaving little room for moisture. To keep the surface from cracking I use a mixture of eight parts paraffin with one part petroleum jelly. By cutting this covering into thin strips, your average kit can supply you with as many as a hundred fire-starters or candles.

Special Tools—Consider all the possible events that could arise in your life and within your selected environment area. For instance, if you travel frequently in ranch country, you might eventually need a pair

(Continued on page 63)

Survival Kit Checklist

This cannot be a complete list because of so many variable factors. The first aid section should be built up more completely as you gain knowledge of medical practice. Most drugs are not storable at room temperatures for long periods. Consider them for specific field trips with your doctor's advice.

FIRST AID:

Personal Basic Kit:

Compress
Gauze
Band-aids
Butterfly sutures
Bandana
Tape, cloth
Razor blades
Tweezers
Alcohol
Aspirin
Scissors, small
Suture kit
Antiseptic
Disinfectant
Germicidal soap
Chapstick
Sunburn lotion
Needles, sewing

Advanced Kit:

Petroleum gauze (burns)
Surgipad dressing
Triangular bandage
Eye pads, sterile
Air splints
Cast, instant set
Hemostats
Thermometers: oral
rectal
Otoscope: throat
Stethoscope
Blood pressure
Throat sticks
Plastic gloves
Burn kit
Snake kit
Dental kit
Insect kit
Drugs: eye
pain
heart
diarrhea
disease, misc.

Foot Care Kit:

Elastic wrap
Tape, cloth
Tape, elastic
Pads, corn-bunions
Band-aids
Alcohol
Foot powder
Anti-fungal
Heel cup, plastic

WATER:

Solar still
Vegetation still
Containers, plastic
Sheets, plastic
Illustrations, stills

Bags, plastic 2' x 4'
Purification tabs
Canned water
Filter, compact
Canteens
Tubing, plastic

FOOD:

Glucose
Essential fats
Supplements: vitamins
minerals
proteins
Food, canned
dried
dehydrated
freeze-dried
grocery items
Honey, squeeze tube
Soup, instant packs
Grain, wheat, etc.

Fishline

Wire, snares
Monofilament
Matches, waterproof
Aluminum foil
Fish hooks
Fish lures
Gun & ammo
Weapon, alternative
Gill net
Net, other
Pot, metal
Cup, metal, canteen
Lures, scent
Calls (lures)

SHELTER:

Illustrations, shelters
Knife, large
Axe
Saw, wire-type
Buck-saw blade
Sleeping bag
Space blankets
Candles
Chemical heat
Tents
Mosquito netting
Sheeting, plastic
Mattress, foam/air
Ski mask
Balaklava
Face mask
Gloves-mittens
Jacket
Parka/hood
Socks, heavy wool/pile
Boots, insulated
Inserts, boots
Underwear, insulated
Hats: rain/sun
Poncho/rain gear

Head net, mosquito
Cord, light nylon
Tarp, light nylon/vinyl
Hammock, light/jungle

FIRE STARTER KIT:

Matches, waterproof/windproof
Lighters, butane
Starter fluids/gels
Plastic bags, light
Magnesium/steel wool
Knife, small
Candles, small
Wax, impregnated cloth

FUEL:

Chemical, solid/liquid
Stove, light, folding
Stove fuel: solid/liquid

SIGNALS/COMMUNICATIONS:

Flares, star/parachute
Launcher, pocket/pistol
Mirror, steel/glass (hole)
Whistle
Smoke, "bombs", small
Flashlight, batteryless
Illustrations of signals
EPIRB (Radio beacon)
Radio, two-way
Kite, compact
Balloon, Mylar/helium
Bright sheet, plastic
Fire capability

PERSONAL PROTECTION:

Firearms/ammo
Chemical spray
Electronic, shock
Electronic, camp alarm
Booby trap triggers
Knife
Staff/spear/cane
Radio, two-way

REPAIR-MAINTENANCE:

Tape, rip stop
Tape, cloth
Seam sealer
Wire, steel/copper
Glues
Resin, two-part
Pliers
Screwdriver
Wrench
Scissors
Files
Clamps
Lubricants

LIGHT:

Flashlight, waterproof
Flashlight, batteryless

Candles, long-burning
Lantern, candle
Lantern, mantle
Fuel
Fire capability
Glow sticks

SURVIVAL MANUALS:

All-around
First aid
Desert
Cold
Illustrations for:
stills
traps
shelters
signals
Special
Equipment manuals
Microfilm & reader

HEALTH-SANITATION:

Doctor's examination
Toilet paper
Alcohol
Trowel, plastic
Nutritional supplements
Soap
Face cloth/towel
Toothbrush
Personal needs

TRAVEL:

Maps, local
Maps, objective area
Compass, wrist
Compass, other
Machete (Jungle)
Rope, 1/4" nylon
Climbing gear:
pitons
carabiners
wedges
rope
Shoes/boots (comfortable)
Snow goggles, folding
Illustrations, improvised shoes
Water travel:
inflatable boat
flotation devices
Snow, shoes
Snow, skis (X-country)
Pack, comfortable
Light (night travel)

VEHICLE REPAIR:

Tool kit
Spare kits
Winch, and
Survival kit
Traction kit
Fuel, extra
Tires, extra/repair

Jumper cables
Water, extra

AIR:

Avalanche, position-finder
Airway, plastic
Oxygen eq pt.
Compressed air
Mask
Tubing, plastic
CPR instructions

CUTTING TOOLS:

Knives:
small folding
folding-locking
sheath
Swiss army-type
razor blades
scapel blades
Axes, small/large
Files, flat, round, triangular
Saws:
wire
hack saws
pruning
hand-rope chain saw
buck-saw blades

OCEANS-LAKES:

Sunglasses
Flashlight, batteryless
Flares, parachute
Smoke, large
Dye
Bright sheet
Canned water
Solar stills
Reverse osmosis filter
Salt tabs
Containers
Exposure suit
Floating knife
Charts
Compass, quality
Time piece, accurate
Raft, survival-type
Flotation, personal
Net, dip
Fishing kit
Nutrition kit
Energy food
EPIRB (Radio beacon)
Gaff
Harpoon
Gigging hook/spear
Sunburn lotion
Tarp, sun-screen
Kite, radar reflecting
Balloon, radar reflecting
Paddles
Sail kit
Sea anchor & line
Raft, inflatable

Combat Survivalists:

Forcemen

These individuals stand ready, should war or some other upheaval occur . . .

By William J. Conti

AS TIMELY as computers, and as old as the seas, so is the struggle for survival. From spearheads to warheads, it has usually been a priority of the military man, but today civilian populations of the world are also taking upon themselves the survival of holocausts, be they natural or man-made. These people are preparing, planning and training to survive, rise again and start anew.

In the past few years, a different type of survivalist has come on the scene; the combat survivalist. They consider themselves the protector/aggressor force for their survival community, or for others needing their expertise in the field of combat.

These protector/aggressor forces organize and operate under various titles, such as No. 5 Commando, The Blackbirds, Union Protection Group and the Michigan Area Rescue Squad, to name a few. For the purpose of this article, members of these combat survival forces will be known as forcemen. The article will discuss the forcemen, their training, ideology and future. It will point out their way of combat thinking.

The first point many private forces wish to clear up, is that they do not consider themselves paramilitary and have no formal rank structure, pay or politics. Some do have informal rules, bylaws or guidelines for members to follow, to bring cohesion and uniformity to the force.

But for the most part, the forceman is knowledgeable and well disciplined to function on his, or her own.

To be ready and prepared to survive, the forceman must have knowledge of the critical times he or she lives in, training and development of combat and survival skills, and the will to survive, the quality of mental preparedness that distinguishes the survivor from the vanquished.

There are many survival groups in North America, but most only touch on the subject of combat. The forceman has excelled in it. In most cases, he's probably a veteran, attended a few combat and survival schools, and perhaps is a political science graduate, or at least well informed on world affairs.



Woodland camouflage outfit, ALICE pack and CAR-15 are part of this forceman's gear.

His equipment is up to date, well-rounded and comparable to the infantryman of the American military. His equipment may include a night vision scope for his assault rifle, body armor and NBC (Nuclear, Biological and Chemical) gear. He must still be very crafty to compensate for the lack of sufficient equipment, arms and ammunition.

The forceman is well educated in the medical aspects of survival, often with training in first aid and other emergency medicine. He's his own doctor. He is well schooled in the proper applications of amyl nitrite ampules, atropine syrettes and BAL ointment for NBC protection. He has studied pharmacology and elementary surgical procedures.

His physical training may include camping, hiking and hunting. And perhaps a bit more of physical activities such as skin

diving, spelunking and mountain climbing. It is important to him to learn how to operate all types of motor vehicles, pilot a plane, and use a boat. He also tries to understand the general workings of a radio and telephone, and grasp the basics of electricity and electronics.

"I spent 22 months in Vietnam as a forward observer without ever being hit, I'll be damned if I'll let someone blow me away in my own backyard," commented Carl Sutton, a Marine Corps veteran and Illinois resident.

Sutton continued, "I'm well acquainted with civil defense procedures, martial law, and know the locations of military installations. In fact, many combat survivalists I have met, were members of civil defense units in their area."

Sutton is a cartographer and topographer, with highly detailed, up-to-date



Flip up mirror for sighting, range finder scale, clinometer, forestry map scales, and built in thermometer are conveniently built into compact package.

reading method is known to be the most accurate way to obtain an angle with a magnetic compass. With this method the compass circle is numbered in reverse. East and West are therefore interchanged and the numbers run 0 degrees to 360

degrees counterclockwise. This allows the magnetic needle's north seeking tip to point directly to the angle on the compass circle to which the large sight of the compass is pointing.

A phenomenon known as magnetic declination is something most of us must consider whenever we're using a compass. This is because the magnetic needle of your compass points to the Magnetic North Pole. This pole is located in the upper Hudson Bay region of Canada and its position changes slightly from year to year. The True North Pole is located geographically. Maps and directions are based on True North since it never changes, but this is where we can get into trouble.

Because these two poles (magnetic and true) are miles apart, if you happen to be standing at a point on the earth that is in a direct line with these two poles, and you use a compass, you have nothing to worry about because when your compass points at Magnetic North, it is also pointing at True North. This would be true if you lived around Nashville, TN, Terra Haute, IN, or Milwaukee, WI, all essentially along an imaginary zero declination line.

But most of us don't live near this line. People up in Bangor, ME, find themselves about 19 degrees to the east of this line, while people in Bend, OR, will find themselves about 19 degrees to the west of the line. People in Bangor using a compass will find it pointing west of True North, while those in Bend will find their compasses pointing east of True North.

The Brunton Classic compass combats this problem by allowing you to rotate the

compass circle to compensate for the magnetic declination of your area. Thereafter, when you take a compass bearing, you'll be getting an exact True North heading.

Other benefits to be derived from this compass include your ability to measure vertical heights such as trees or cliff faces, determine the inclination of an object, use it as a hand level, and a plumb bob to check vertical objects.

Another compass that is worth considering is the Brunton F-8040 Elite, better known as the "Survivors Compass." This is a true professional-level compass with state-of-the-art cobalt steel needle, permanently clear liquid filled vial and adjustable declination ring. This model also features a built-in thermometer, wind chill chart, range finder scale, clinometer, forestry map scales, clear base with protractor, lanyard with inch markings. You can't ask for much more than this in a compass. It also comes in a black nylon sheath with Velcro closure, extra pockets and pen holder. Also included are waterproof survival information cards. The Elite is ideal for working with topographic maps because it features a long base plate, magnifier and protractor.

Whichever of these units you might choose, you can be sure that either will help you find your way in the event you stray off known trails, paths or roads.

Brunton Compasses are available at finer sporting goods stores nationwide. If you would like further information or the name of a dealer in your area write to: Brunton Co., 620 E. Monroe, Dept. ASG, Riverton, WY 82501. ●



The Elite is supplied with nylon sheath. Enclosed in the sheath is a lanyard with inch markers and handy waterproof survival information cards.



ABOVE — Weighing a mere 5.5 ounces, this surveyor transit is very possibly the most accurate and easiest to use product of its type.

LEFT — Top of the line Classic is unparalleled in its class. State-of-the-art design and construction feature specially developed composite materials and a radically new magnet system. Prismatic incline sighting offers superior accuracy. Other features include horizontal and vertical angle measurements, jeweled movement, waterproof and accurate to 1/2-degree, 0-360 degree azimuth ring, leather case and lifetime guarantee.



The Toothache tree is a roadside source of pain relief, medicine, seasoning for foods and other survival aids.

Toothache Tree

This plant has a broad spectrum of medicinal usage beyond dental ailments . . .

By T.R. Zimmermann

PHOTOS BY DENNIS ELLINGTON

UP AND DOWN the roadsides, along fence rows of pastures and farms, and in the woodlands of the southern United States grows the toothache tree. It is a small tree or large shrub with beneficial medicinal properties. Especially for those who suffer from toothache pain and have no immediate access to modern dental care, as may occur in a survival situation.

Although it prefers the dry soils of open areas, the toothache tree can be frequently seen in the forested regions of warmer climates of the world, including Mexico, Central and South America, and Africa. A member of the genus *Zanthoxylum*, it is well known by many common names: prickly ash, tickle tongue, pepper bark, hercules club, rabbit gum, *correosa*, and

aceitillo.

The deciduous tree may grow up to 18 feet tall and has a loose crown of glossy, pale green pinnately compound leaves. The leaves give off an easy to identify peppery smell when crushed. In the spring, dense clusters of tiny, fragrant greenish yellow flowers cover the branch tips and in the fall, pea-size, pitted black fruits dot its bare branches. The smooth bark of stems and trunk are liberally coated with corky warts tipped with sharp, slightly curved thorns. A clear, watery sap will ooze from cuts in the bark.

It is the simple "taste" test that quickly determines the toothache tree's amazing property from that of its neighbors. If a marble-size portion of the inner bark, leaves, flowers, or fruits is chewed, an

intense numbness or tingling sensation to the tongue and lip is instantly felt. No other tree has this unique ability.

A comprehensive phytochemical analysis has exposed its secrets. All parts of the aromatic tree (roots, sap, bark, leaves, flowers, and fruits) contain the following principles: zanthoxyli, coumarin, sesamin, and various minor resinoids. A very pungent resin, zanthoxyli has a complex chemical structure and properties similar to the commercial product benzacaine.

Coumarin and sesamin are toxic glycosides with documented pain reducing abilities. Coumarin is found largely in the leaves, and in concentration can destroy the clotting mechanism in human blood. Hence, only measured amounts of the tree should be utilized in the treatment of

placed in the middle of the split stick spreading it apart. It must be spread as wide as possible to increase the surface of the trigger. It should at the very least be spread two inches wider than the hoof of the animal you are trapping.

By placing your foot on one side and pulling up on the other side with your hands a hard-to-spread trap can be set.

Trap site location is key to trapping. If the best trap in the world is set in the wrong environment it will not catch what you are after. This trap must be set in a trail used frequently by the animal or variety of animals you are trapping. The surrounding area should make it difficult for an animal to travel with a three-foot long stick on its leg (i.e., snow, brush, trees and logs). A word of caution: the growth should not be so thick the prey can get hung up or it may pull loose.

An area in the trail that has natural obstacles on both sides is preferred but this narrowing may be set up. It also helps to have a natural problem that must be stepped over from both directions of the trail, thus controlling the placement of the foot into a given area. This too may be created. If any part of the environment is created, let the production lie undisturbed for a week before placing the traps. This principle should be used with all trap setting if a trap location must be constructed. If there is a stoppage to step over, the traps should be set on both sides of the hindrance to increase the odds for both directions of travel.

A trench the size and length of the trap is dug in the trail just deep enough to cover the limb. Then under the trigger pad, in the middle of the stick, a pit is dug large and deep enough that the animal can step through the trap (the pad will fall to the bottom and the branch will shut above the hoof or above the dew claw if the animal has one).

The animal will instinctively jerk its leg up before the trap has a chance to close so allow for this in determining the depth of the pit. After setting the trap in the trench, the trap is covered with a native material that will not obstruct the closure of the branch. (for example, a thin covering of dry grass). Plastic wrap can be used in the winter or summer with a thin covering of snow or dirt. Cloth becomes wet and freezes in the winter which can affect the success of the trap. Wax paper won't freeze but does "krinkle and crackle" often causing the animal to react quicker and decreasing the chances for a catch. The plastic wrap must not be wrapped onto the trap or anything that might stop the wrap from freely sliding down into the trap.

At least three traps should be made for a set and as many as six can be placed in one set. The sets are placed, so the animal, in a panic after the first trap is sprung, will get other feet into them. More traps in a set also increase the odds the creature will step in one of the traps. The spacing will vary

depending on the animal being trapped.

Snow or dirt between the split stick prevents rapid closure and care must be taken to insure no dirt or rocks get under the trigger pad. Snow creates the usual problems of freezing, thawing and accumulation to bury the set. In soil conditions that might create a problem a bundle of sheep wool or a loose ball of dry grass may be placed under the trigger before it is placed to prevent anything from rolling under the pad. A problem can occur in the winter with the branch freezing if it becomes filled with moisture. It will not close if it is frozen and may or may not work if it becomes totally saturated after an extended rain or during spring runoff.

Rub sagebrush (*Artemisia tridentata*) on the trap before placing in the set to help remove the man scent. This is not a major problem with the animals being trapped but just an insurance policy.

This is an easy to make, effective trap for any hoofed animal that uses established trails to travel for water, salt (mineral licks), or to "bed down" during midday.

Paiute Deadfall—Deadfall traps are many, but one of the most adaptable and easiest to make is the Paiute. The early Paiutes lived in a harsh land and utilized small animals as a major source of food. Thus they developed a simple but very effective trap.

The materials for construction include two sticks as straight as possible, but crooked ones will work (another advantage of this trap), a small trigger shaft, a toggle branch and a piece of string that can be made from natural fibers (see "Cordage" *Survival Guide* November 1982, page 12) or clothing, if need be.

The stick length and diameter will vary depending on the species being trapped. They must be long enough for the animal to walk under. Some animals will go under something that is low and closed in, but others must be given plenty of space if they are to enter easily and not be tempted to go around. Again, knowing your animal's environment and proper trap location is important. The diameter of the shafts must be sufficient to support the amount of weight needed to kill or pin the animal. The wood should be dead and dry to increase the smoothness of the trap action and to prevent bending at the notch site.

A trigger can be made from any small but long stick. A stiff weed stalk will even work for small rodent traps. The length of the trigger depends on the height of the trap. The trigger stick or weed is measured when the trap is being set. It is critical to the operation of the trap for it to be just the right length, reaching from the toggle stick to the back of the trap.

The toggle branch should be at least twice as long as the diameter of the support stick and 1/8- to 3/8-inch diameter depending on the size of the trap and the weight of the deadfall.

The sticks are notched. The two sticks

are the same length and set at about a 45-degree angle. The cordage is measured while the shafts are in this position by fastening the string to the angle piece that goes under the weight. Then wrap it around the support shaft the number of times needed holding on to the string at the point the toggle stick must go. Now tie the toggle piece to the cord.

The cordage can vary from two wraps to no wrap around the supporting stick. This controls the pressure required to release the trap. This allows trapping of small rodents such as mice and rats (the most plentiful and the easiest to catch) or making a set with no wrap that requires a large stronger animal to set it off.

Paiute deadfalls may be used with bait on the trigger shaft or placed across the trail to be tripped by the animal's feet, without bait. The toggle trigger can be adapted to snares and man traps very easily.

Snares—Snares require a spring lift or drop weight to lift the animal's feet off the ground. Depending on the type of tree or bush used most spring lifts tend to lose their spring if set for several days. A drop weight set will remain as strong as the day it was set. The size of animal to be lifted, the materials, environment, and the length of time the trap will be left determines what lift system to use.

Snares will trap any size animal. Early people used them to catch deer and elk. They may be set in a run, at an entrance to a den or they can be baited. The snare is

(Continued on page 58)



Two pieces of cedar are tied back together after being split apart to make this trap for deer. A cedar shingle or other small boards can be set to make a trigger. The trap is then set where the deer will likely place its feet.

7.62mm NATO:

Armscorp M-14

A 2,000-round test of this mil spec copy of the military rifle . . .

By Jim Thompson



IT ISN'T easy to lay hands on the Armscorp M-14. The rifle is selling where dealers handle it, Armscorp and the metal-working firm Smith Enterprises, which does the forgings, are behind, and very few casual sporting goods stores handle the unit. But I acquired one for a 2,000-round test.

Let me ruin this article for you: You're going to ask yourself, "is this thing really a military specification M-14 less all those parts which can get you arrested?" Answer: Yes, it is.

Here's how Armscorp advertises the M-14:

"TIRED OF JUNK? Why settle for fake or inferior M-14 parts. We've got the best; original issue U.S. GI M-14 parts sets, made by the original contractors . . . in excellent condition . . . forged, not cast . . . These match grade receivers are made by Smith Enterprises, a long time contractor to the U.S. Government . . . ours had a Rockwell 'C' rating of 55-60! random x-rayed . . . precision engineered . . ."

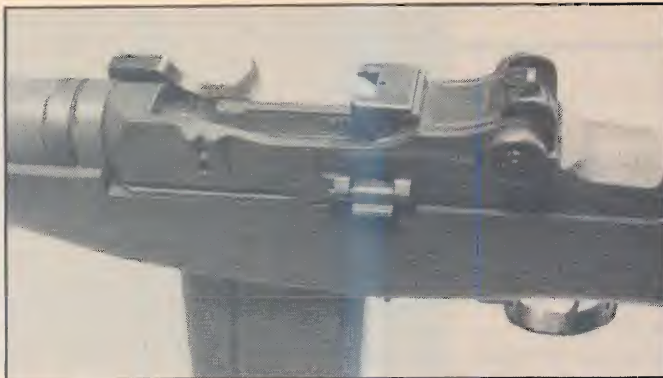
The unit is available as a receiver, parts kit and receiver, or complete rifle. New and used magazines are available. No matter how you cut it or where you get it, it will cost you well over half a thousand dollars to get this rifle. *But* it is what its manufacturers claim it to be.



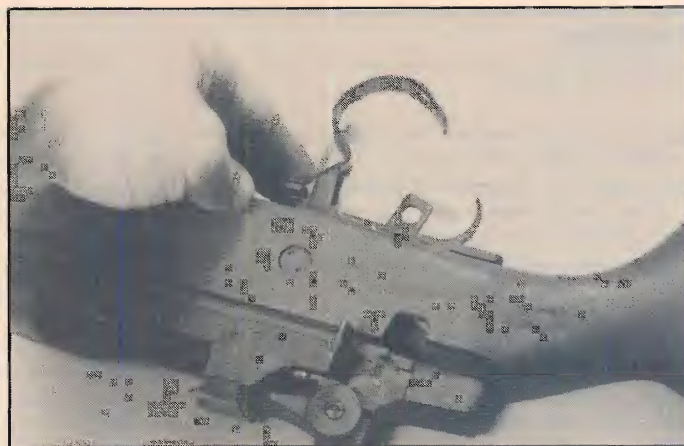
When I received the test rifle, I broke it down immediately and checked all parts for the U.S. GI inventory numbers and stamps, had the receiver Rockwell tested (it was 57 Rockwell "C" scale, right on the button), generally checked fit and finish of the parts. I then detail stripped even the small parts and checked everything out to verify that Armscorp's claims were valid. They were. I hot-footed it to a couple of local surplus dealers to cross check some markings, and was able to verify their origins.

Why is it so important that these parts

meet specifications? Why does Armscorp stress that so much in their advertising? Basically, because the United States has no proof laws or enforced inspections a manufacturer can, technically, and sometimes does, sell whatever crosses the end of the assembly line. U.S. GI parts, even small ones, are made from as many as nine pages of drawings and up to 20 pages of metallurgical specifications and finish/polish standards that partially account for the \$400 hammers that make so much news. And these standards are firmly enforced.



ABOVE—Scope mounting the Armscorp M-14 is a few minutes' work. One end of the mount "bar" fits the groove, and the locking bolt fits the hole.



RIGHT—First stage in stripping the rifle is the removal of the trigger group. Guard is hinged away from receiver and assembly is then withdrawn.

The only malfunctions experienced with this rifle—two "sheddings" of the extractor—were in fact due to a properly installed extractor spring/plunger assembly which was at the upper end of spring tension specs. And had it not been Parkerized or had it been buffed or worn in a bit, it would have caused no problem at all. Eventually, in fact, I buffed it off and had no further problems.

The rifle came to me properly greased with graphite rifle cup grease, the correct lubricant for virtually all interlocking parts on both the M-1 and M-14. This is impressive, from the point of view of meeting the *exact* specifications right out of the box. Civilians are not accustomed to seeing this sort of thing, but let me assure you, *any* Garand system rifle will function much better if you use this or a very similar, heavy lubricant. WD-40 or similar, thin lubricants are not the proper stuff for hefty, gas-operated military rifles.

Chrome-Lined Barrel—The rifle came fitted with an "HRA" (Harrington & Richardson) chrome-lined barrel dated 12-61 and in new condition. It came with a web sling, which I instantly removed and replaced with a proper leather unit. Some traditions never die. Also, leather slings do not cut or chafe the forearms or shoulders.

How does it shoot?

We assembled a large quantity of .308 (7.62 x 51mm) ammunition of various headstamps for accuracy and function testing, and proceeded to blast away.



Three basic groups make up the M-14: trigger, barrel/receiver, stock.

Armscorp M-14: Tech Specs

Action semiautomatic, gas operated
Length 44 inches
Weight 8 pounds, 4 ounces
Barrel length 22 inches without flash hider
Rifling 4 grooves, right hand
Magazine 20 rounds, detachable box
Price, suggested retail \$800
Manufacturer Armscorp of America, Inc., Dept. ASG, 9162 Brookville Road Silver Spring, MD 20910

Best long range hunting ammo was Winchester-Western's 180-grain silvertip, which carries tremendous energy down range. Most accurate military ammo was some surplus Columbian armor-piercing of mysterious origin and various headstamps, which shot quarter-sized groups at 100 yards and amazed everyone. IMI-Samson 150-grain Boattails and full metal jacketed military-style ammunition shot exceptionally cleanly, and printed 10- and 20-shot strings just over two inches at 100 yards. One hundred sixty-eight-grain Sierra-bulleted Federal Match ammunition—a pretty good hunting load, too—seemed to be limited only by a shooter's ability to see at long range. I found myself blasting a silhouette ram in the head at 500 yards every time, rejoicing at the sound of the gong. If I had to choose one round for everything with this rifle, it would be the Federal 168-grain match. It's pricey, but delivers plenty of power for most purposes and shoots true. Like the M-1, M-14 rifles actually work better with bullets heavier than the military service load.

Now a word of advice. When you get a new rifle with a wooden stock, it's a pretty good idea to "skin" the inside of the stock. Typical five-shot groups with the stock in dry condition ran four to five inches; after simply spraying the inside of the stock with gloss lacquer, the group size and consistency became truly match quality. The fit of metal to wood should be tight. The principle is the same as glass or epoxy bedding, and the effects are almost as profound. This kind of skin coating is not *very* durable, and no substitute for real bedding. But it helps keep the rifle's internals clean, and gives you a rifle with plenty of service-style accuracy without the mess of bedding.

Bedding a semiautomatic rifle can make it less reliable by confining heat; skinning won't. It's a makeshift for service applications that can work.

Somebody's going to ask, "can I make this thing shoot full auto?" My answer is: not legally, not conveniently, and for that purpose—even if the others mean nothing to you—this is the *wrong* rifle. M-14 is essentially a much lightened, considerably simplified M-1. It's light enough, especially with a short 5-round magazine, to take in the field for hunting. The military had a lot of problems trying to make the M-14 into a sensible quad automatic weapon. The M15, with a heavy barrel and bipod, was the first attempt, then there was M14A1, a bunch of prototypes, and basically not much success. Back in the 1960s, I spent the better part of a weekend watching infantrymen with machine gun and BAR experience run a comparative test to see whether M-14 could score more hits at 100, 200, and 500 yards on full-automatic mode than a stock M-1 fired at a fairly relaxed pace. It wasn't even close. For the desperados in the world, perhaps a bullet hosing device is o.k., but for the rest of us who merely want to hit whatever we're aiming at, M-14 *as is* will score more hits and cause less trouble with the law than a cobbled up fully automatic unit with the connector-selector unlawfully attached. This does leave the problem of what to do with the hole in the stock provided for the unit; you could fill it or attach a dummy unit. But *do not* break the law; not only does **BATF** take a dim view of your even purchasing the parts, it just isn't worth the effort.

Detail stripping the rifle is not the pro-
(Continued on page 72)

Trapping

(Continued from page 55)

easy to construct and all the materials can be made in the field if needed. The snare loop should be tied with a friction knot.

Commercial snares may be purchased that are made from wire or cable. If available, a commercial coyote snare works well for large game. They already have a locking noose, but generally need additional cordage to make a set. A snare around a neck will strangle an animal. Small animals often get caught around the body and can twist and break a wire or chew a cord if they are not lifted in the air.

A spring method is created with a young tree or a large limb and allows the animal to bounce and move but does not give the opportunity for a solid pull to break the cordage. An animal will strangle if a locking noose is used and is caught around the neck.

The disadvantage of this method is it often loses its spring, not lifting the animal high enough to get at least one set of feet off the ground. It also must have a young tree or appropriate limb in the ideal location for the set.

To use the spring method start with the noose, making it the size needed and place it, where your snare will be located then measure to the trigger mechanism and tie it in. With the trigger set, apply the pressure, to hold the trigger in position and pull the sapling down, measuring where it must be tied on the cord.

The cord is then tied to the end of the limb or sapling yet in an area strong enough not to break or pull off. Always tie with string from beyond the marked point or it will be too short. The set is then made.

In timber country the weight lift is often the easiest to place. There must be something to hang the lift over, such as a limb and something to use for the weight (log, rock or shirt filled with rocks, etc.).

The weight must be heavier than the animal to be trapped. If it is not heavier, the animal can seesaw the cord over the support and wear the cordage out.

The weight must be placed so the animal can not reach the tree trunk or anything else when held in the air. The snare line is measured so the weight will not jerk the captured animal over the support member before the weight hits the ground.

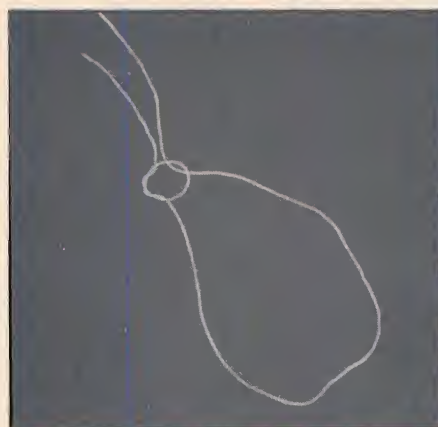
There are probably as many snare triggers as there are trappers. Most can be interchanged with the two lift methods covered in this article. The two I've found to be the most usable and simple to construct are as follows. Both triggers should be made from dead dry wood for smooth action and strength. The first must have soil conditions that allow driving a stake. The drawback is the stake can work out of the ground after a rain and will not work in frozen ground.

A stake is built with a spur protruding

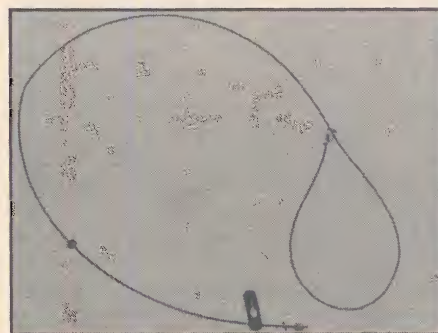
from the top end using the hardest wood available. Normally an existing branch on the side of the wood to be used makes the spur. The stake should be about twelve inches long and at least 3/4 inch in diameter. This stake is placed in the ground directly below the lift system.

The trigger stick is fashioned the same as the ground stake with a side spur. The wood used can be of a softer material. It is fastened to the snare line at the opposite end of the spur. The fastened trigger stick is attached to the snare line at the measured distance from the loop and set to the stake. The distance must allow the loop to be placed as needed but have limited slack before the animal releases the trigger. It should be set as "light" as possible for small rodents and "heavy" for large animals. This is done by increasing or decreasing the amount of pull required to pull the system free and release the lift, by varying the amount of contact between the spurs on the stake and trigger stick.

The second trigger is used when an anchor post is available in the area the snare is to be set. It doesn't need to be directly below the lift but 30 degrees is generally the maximum angle. This trigger often works well with a weight lift system, and is used when the ground is frozen, wet or rocky. It is harder to vary the degree of pull required with this trigger but the system can be placed above the reach of



This snare knot will cause some drag against an animal's efforts to open it again.



A commercial coyote snare with locking loop device.



A Paiute Deadfall is set. The toggle-type trigger can be adapted for use with snares using both trail sets and bait.

small animals when after big game.

Two small stakes (1/4- to 3/8-inch diameter and one-inch long) are made from the hardest wood available. Cut one end into a wedge shape not using over half of the total stake length. It is easiest to cut the wedge then cut the stake to length.

Using the tip of a knife blade, two vertical slots are punched with the grain in a standing tree as close to the height of the snare loop as possible. They are placed 1/2- to 3/4-inch apart and side by side. The wedge ends of the stakes are then driven into the slots. A toggle stick 1/4- to 3/8-inch diameter and two inches long is tied onto the snare line at the measured distance from the snare loop to the trigger. There must be enough line to place the loop as needed but very little slack for the animal to take up before pulling the toggle stick from the pins and releasing the lift. The toggle stick is placed as close to the anchor post as possible. This prevents the pins from being pried out of the slots. Because of this, the wedge stakes must often be shortened to "lighten" the set. The easiest way I have found to do this is laying the small stake on a log and rolling my knife blade around the stick until it snaps off.

The toggle trigger of the Paiute Deadfall can easily be adapted to snares, not only neck and body snares as described here but also foot snares. Conditions are never ideal in the field and a good deal of imagination and creativity must be used to adapt knowledge to the situation.

Trapping and snaring can be an energy conserving method of gaining food or protecting a territory. By making a dozen or more sets and using different methods to catch a variety of animals, the larder can be kept full with a minimum output of energy—just checking the traps every morning. Traps should be checked from a distance to avoid disturbing the area with fresh man scent.

Again, the key to successful trapping is learning the behavior and habitat of the creatures being trapped. This can only be done through observation and experience in the field, or by accompanying someone with the knowledge that can pass it on. This critical phase of trapping education should be done before trapping is a necessity. ●

Safe From Terrorists

(Continued from page 27)

how quaint you think it is. Avoid moving around town. Use side entrances when possible. Don't tell the doorman to get your cab, get it yourself. Wave off the first cab and take the second. Avoid patterns and routines.

"Use common sense! If you are Jewish, leave your Star of David and your yarmulke at home. Instead wear a crucifix and carry a well-torn New Testament. If you're a diplomat, get rid of your red passport. Don't wave the flag. When possible fly El Al airline, it is the most targeted but the safest airline," he says.

Jarrett also advises the use of major hotels, because they are rarely targeted. "Develop a good rapport with the hotel manager and the maitre'd, (this may mean lavish gratuities, but money is less dear than blood). Still, take precautions, use the upper floors, though not the top floor. Don't take a corner room nor one next to a stairwell.

"Make your reservations under a false name, make dual reservations and never use your company credit card to make reservations. Never allow your room to be cleaned in your absence. Look for escape routes. Leave the lights on at all times. Make sure you do not project a silhouette on a windowshade. Avoid waterbeds and balconies," he says.

Most importantly, he adds, stay alert and remember that the responsibility for keeping yourself alive belongs to you.

"Security is like lamination. None of the pieces will keep you alive by itself, but all together, they provide a formidable barrier," he states.

ESI—Bob Duggan agrees. Duggan is president, owner and chief instructor at Executive Security International, an Aspen, Colorado, school for executive protection agents.

"We put a lot of emphasis on the proactive approach to executive protection because we know that good planning and good procedures can avoid crisis situations. We don't neglect the reactive skills, because they are so important, but we recognize that if you have to draw a gun it is usually because you have failed to take some proactive precaution," says Duggan.

In addition to the proactive and reactive skills taught by ESI, says Duggan, there is another important skill that an agent needs. "That skill is taught in a course we call 'observational psychology' though it is more about observation than psychology," he says.

The course of study at ESI is extensive. It may be the most complete school of its kind in the world, a fact that has resulted in its being labeled "the Harvard of body-guard schools."

During the two-week course, students

(Continued on page 60)

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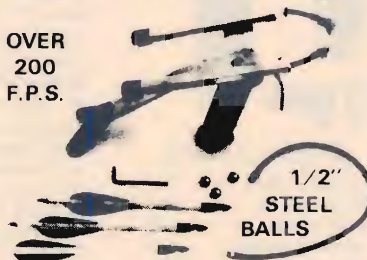
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Safe From Terrorists

(Continued from page 59)



James R. Jarrett is president of Protective Services International.



One of Jarrett's students takes aim at a silhouette target.

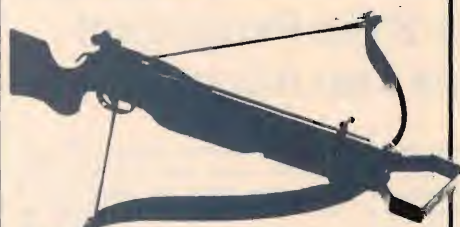
are subjected to intensive training in the principles of protection, profiles of terrorism, escape and evasion driving, basic combat shooting, combat handgun tactics, observational psychology, unarmed defensive tactics, demolition search and identification, electronic security and first response medicine.

The staff at ESI includes former Secret Service agent Harvey Jack McGeorge, race car driver Wally Dallenbach, international pistol champion John Farnum and a dozen other expert instructors.

Total costs for the course are \$5,530—not cheap by any means, but according to Duggan it is a solid career investment. "A good executive protection agent can earn \$30,000 to \$50,000 a year, and live a lifestyle that would not ordinarily be available to him," he says.

According to a recent article in *The Wall Street Journal*, "Rubbing elbows with the rich and famous is an undeniable attraction of security work," but by no means is it the only motivation, argues Duggan. "The most common trait of personal protection agents is the desire to serve and protect," he says.

One other key factor is the element of danger. "Most agents are, by nature, risk takers. They enjoy living on the edge. In that regard, they are very similar to the terrorists on the other side of the fence. In a way, they are opposite sides of a coin. The difference is that we play defense."



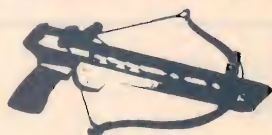
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Duggan states.

Duggan knows whereof he speaks. He has been on both sides of the fence. In the 1960s, Duggan was a Marxist activist involved in the "campus revolution" and later an agitator or agent provocateur who managed to get himself kicked out of a number of Latin American countries for his activities.

Both Duggan and Jarrett are on the cutting edge of the personal protection training industry, though Jarrett's operation is smaller than Duggan's. And both are eminently qualified in their field.

Jarrett is a former Green Beret, a one-time member of the U.S. Olympic pistol team, an alumni of the L.A.P.D. SWAT team, and an experienced "street cop."

Duggan is a fourth-degree black belt master of an esoteric martial arts form known as Hwa Rang Do, an expert marksman, and a recognized expert in the fields of observational psychology, executive protection strategy and tactics, with an "insider's" perspective of terrorists and their activities.

These two men, and their schools, are but two facilities specializing in teaching survival skills. There are a number of others, including Jeff Cooper's American Pistol Institute in Paulden, Arizona and the Bob Bondurant Racing School in Sears Point, California. ●

Self-Defense Training

Here are addresses for the schools mentioned in the article and for several other schools offering similar services.

Protective Services International
P.O. Box 30126
Phoenix, AZ 85046

Executive Security International
520 E. Cooper, Ste. 205
Aspen, CO 81611

Bondurant Racing School
Sears Point International Raceway
Highway 37-Highway 121
Sonoma, CA 95476

American Pistol Institute
(Jeff Cooper)
Paulden, AZ 86334

The Northeast Pistol Institute
P.O. Box 453
Union, NJ 07083

Chapman Academy
(Ray Chapman)
P.O. Box 7035
Columbia, MO 65205

American Small Arms Academy
1713 Far View Lane
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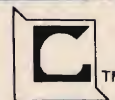
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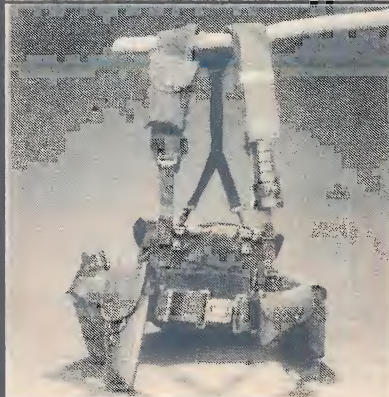
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Toothache Tree

(Continued from page 49)

netted or speared, and large amounts of animal protein can be gathered for the table. To the aqua farmer, it is a means of acquiring replacement stock or food for his game fish, as most of the stunned fish will revive once in a fresh habitat.

The toothache tree's bole (trunk) is too warped for commercial lumbering and its brittle wood useless to the large-scale woodworking industries. Nevertheless, it is still found in the labor-intensive economies practiced in Latin America as a fuel, for farm implements, and in the manufacture of furniture or minor household wares. Insect resistance appears to be a major characteristic of the tree as termites do not readily attack the dead wood unless it has been sufficiently weathered.

Its dried leaves and wood chips burn with a strong pleasing odor, and find use in the manufacture of incense or to make gentle smudges to repel flies, mosquitoes, and flying insects from the home. The fresh wood is very fire resistant, and requires an ignitor fuel to assist in its combustion. Charcoal made from the toothache tree burns with an intense flame and high temperature, and finds use in metallurgy.

Honey bees have been known to fly great distances to visit the tree's sweet flowers. The flowers are considered to be a good bee food by the honey production trade. Many nectar-feeding insects, hummingbirds, moths, and rare butterflies have been observed in the flowers. The African honey bee or killer bee as it is popularly known, has been recorded at its flower clusters in Central and South America.

Ripe fruits are eaten by field mice, wild turkey, quail, and various songbirds. They remain on the tree well into winter and are the favorite food of many types of migrating birds. Their preference for the fruits helps to explain why the toothache tree is so numerous along fence rows and roadsides of the South.

The sharp, thorny branches and trunks are utilized by many nesting birds as protective barriers against predatory snakes and mammals. A species of stinging wood ant found in the tropics makes its home in the corky warts of the bark. They are very aggressive and will swarm out to attack any intruder that disturbs the tree. The ants add further protection for the roosting birds, their nurseries, and the birds seem to be unharmed by the ants.

The web worm or tent caterpillar, the larval stage of the eastern moth, is the only insect that feeds extensively upon the foliage of the toothache tree. In the spring and summer months, they make their tent colonies in the leaves and hundreds of hungry caterpillars begin their feeding activities. Their voracious appetites may partially strip the tree of its leaves giving it a peculiar denuded appearance. Field tests

suggesting the web worm's utility as a survival aid were conducted and the following observations were established: (1) the caterpillar's diet of the peppery leaves made them unsavory to hungry chickens, (2) they are a fish attractant, as crushing and scattering the caterpillars' pulp onto the surface of a fish pond stimulated a feeding frenzy among schools of small pan fish, and (3) the individual caterpillars are excellent live lures for bait fishing.

In Latin America and in Africa, the toothache tree is sometimes planted in ornamental gardens or in landscapes by city planners. Away from the cities, small plot farmers transplant the tree to form living fences and corrals to enclose and protect their meager livestock. The tree is seldom foraged upon by farm animals except for an exploratory nibble.

Precautions—When harvesting material from the toothache tree, always wear heavy duty gloves and protective clothing. Special care must be taken to avoid its sharp, claw-like thorns or deep lacerations may result. Experience has proven how difficult these heal even with the aid of antibiotic ointments.

Actual handling of the wood or contact with the sap or the leaves may cause painful dermatitis or a burning skin rash among persons who are allergy prone. To be safe, do your own sensitivity test. Rub a leaf or a piece of inner bark onto the underside of a wrist where the skin is thin and very sensitive to chemical irritants. Look at the patch after 24 hours to note its condition. If you should discover yourself to be a dermatitis sufferer, limit your usage to the milder fruits.

An intimate knowledge of the functional uses of the plants that surround us in our daily lives is a major step towards becoming self reliant. The more we know, the greater our confidence to be able to face adversity and win. The future becomes brighter as we venture out to meet its challenges.

The toothache tree with its many uses is a valuable addition to the abundant survival aids nature has provided us. It is a source of immediate pain relief and is readily attainable to the outdoorsman and the survivalist where it grows.

It should be used with caution, however, as it is a crude drug with toxic side effects. If abused or too much dependency is placed upon its pain reducing properties, addiction may occur. To protect yourself from an overdose, take only one leaf at a time on a set time scale.

There is no substitute for qualified dental and professional care of pains, injuries, and infections. The toothache tree's medicinal abilities should be utilized only as a temporary aid until professional treatment can be acquired. ●

Survival Kits

(Continued from page 51)

of bolt cutters to pass through locked gates. If you work at an occupation which could complicate your survival, say as a forest ranger who might expect to occasionally encounter a forest fire, a gel-impregnated fire blanket would be a wise option.

If you are talented in any of the manual arts such as a mechanic or horse shoer, always have a kit of your basic tools in your vehicle. A crisis could create a vital need for your services.

Air—To be prepared ahead of time is most difficult for the average person anticipating when he might need emergency air. The dangers are: being buried by snow or earth; smoke; chemical spills; poor health; dust and underwater environments.

Surplus gas masks are excellent for most emergencies. Medical emergencies, when you might need resuscitation, call for more specialized equipment. Your nearest industrial safety supplier can help you.

Escape Evasion—This is an adventure normally ascribed to times of war or criminal activity. Yet there are potential scenarios awaiting even peace-loving and law-abiding citizens during lulls between wars. The California Supreme Court has ruled that if a thief steals your car and runs a person down with it, you are liable for that accident as the car's owner. Other states have similar laws in force or pending that treat the owner of a gun in the same manner. Bureaucracy has already reached nightmare proportions and is still growing despite threatened economic cutbacks.

An Indiana minister was forced to flee the law because he refused to allow the state to impose its reading material on his church-conducted school children. Civil disorders of all kinds—not to mention war—can create a need to quietly change locations. There are a number of books on this subject through ASG advertisers.

Escape kits might include: identity papers, a passport, money, gold, a list of rendezvous contacts and places and maps.

Commercial Kits—These are good sources of hard-to-find items. In most cases, the companies have given a lot more thought and planning to survival kits than most of us have time for. What they don't provide is the joy and the learning experience of assembling your own.

End Result—Survival kits should be the result—the end product—of extensive study, learning, experimenting, planning and plenty of old fashioned thinking. By this process you can prepare for most life-threatening situations, especially those that would likely affect you because of your particular occupation, lifestyle, or circumstances. •

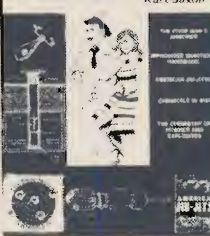
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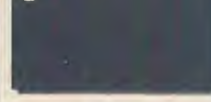
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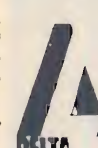
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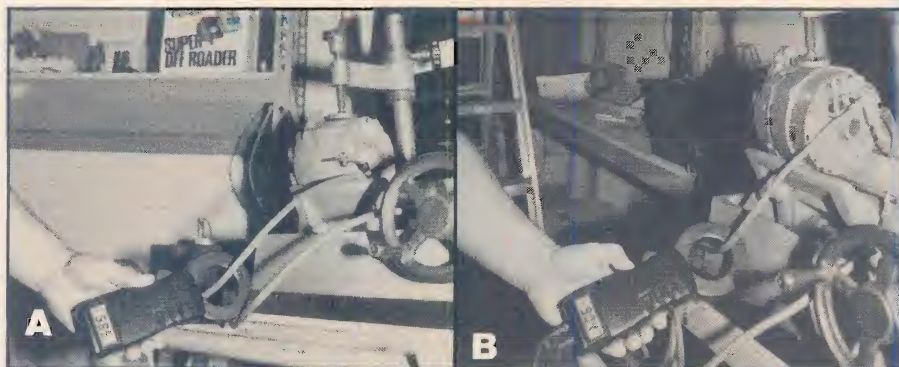
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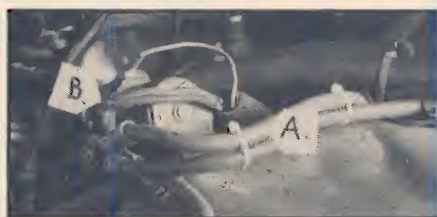
(Continued from page 22)



A brace of 10 Cepek lights provides the test load on the Central Hi-Power alternator test bench. The stock alternator (A) produces 58.5 amps at a calculated freeway driving rpm. At the same speed, the high-output alternator (B) reads 90.4 amps, which is how much current the lights draw. With higher loads, as much as 105 amps are produced by the high-output model.



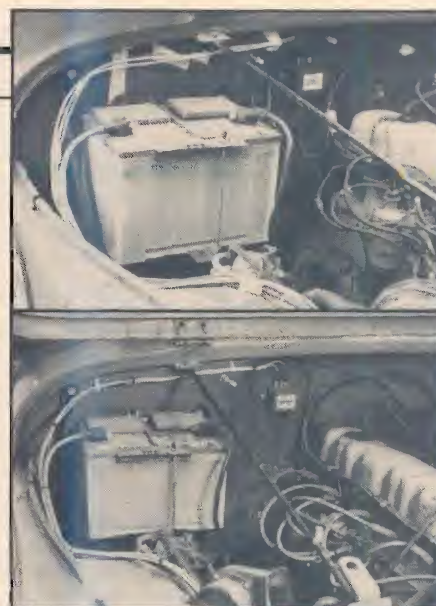
The high-output alternator bolts right in to replace the stock unit. Notice the heavy wire leading from the output terminal.



A new length of No. 6-gauge wire (A) replaced the stock No. 10-gauge wire (B) in the charging circuit for more efficient transmission of the alternator's output.



The ground wire for the Cepek light switch can loop around and be fastened to one of the panel-mounting screws. Heat-shrink tubing is used to secure all crimp-on connectors.



TOP & ABOVE—When routing the wires from the power source, through the relay and to the lights, tape them into place as you figure out where they'll be permanently located. Then, after all connections are made, the circuits are functional and you're satisfied with the routing, use nylon wire ties, cable hangers and so on to secure the lines.

certain history.

Wow! A 105-amp alternator! Sounds great and it is—if you need it. But do you need it? For the moment, you may be running on a stock alternator in the 35-amp range, or it could be as high as 66 amps. Either way, the first step is to perform an "energy need audit" to determine if you really could use all that extra current.

The Jeep used for the project installation was taken right to the source—Merle Gile, the owner of Central Hi-Power Products. (Most automotive electrical shops can provide the same type of vehicle amp draw evaluation.) Merle used a clamp-on inductive pickup ammeter to document the vehicle's electrical draw with various components turned on. First, with all accessories and the engine off but the key in the "run" position, the meter read 1.2 amps of current drain. The accompanying list shows how the current draw increased as additional circuits were turned on:

Engine (1.2 amps), Headlights (12.9), Heater (21.2), High beam (23.5), Brake lights (26.7), Brake lights (26.7), Turn signals (28.2), Windshield wipers (32.2). Our figures didn't include the stereo or CB radio.

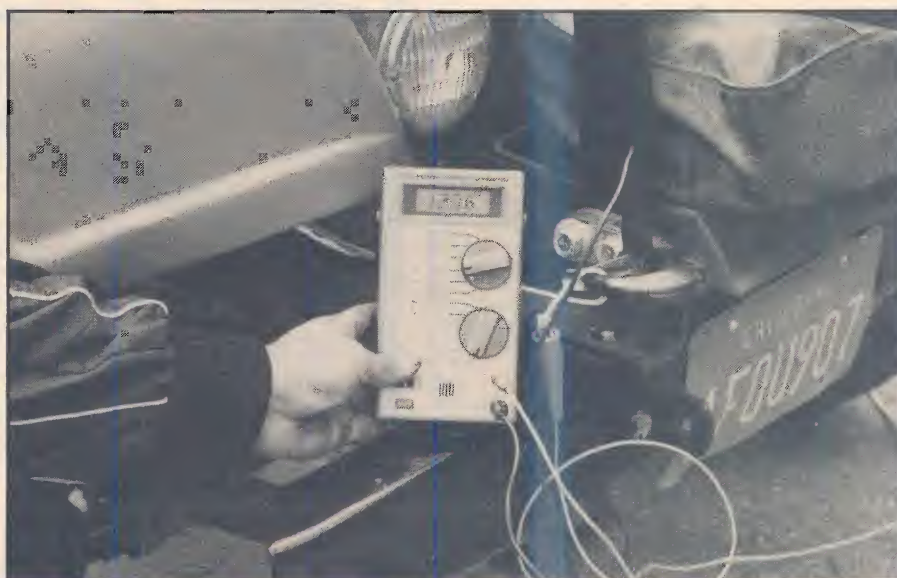
All of these parts cannot count as a full-time current drain, but it's easy to see that if we were using a stock 35-amp alternator, there wouldn't be a whole lot of extra

power being produced.

Our Jeep was equipped with the stock 65-amp alternator, so it had ample reserves of power over and above the 32.3-amp current draw of the rig's standard operational electrical systems. However, the Jeep was also fitted with a Tensen TX2 winch, and that can change the current requirement situation in a hurry.

The Tensen winch motor was checked for current draw with the gearbox in neutral. Even at the lowest possible load, the ammeter spiked near 100 amps when starting the motor and settled to 75 amps with the motor running free. The current drain when running a winch under load is substantially higher. If the winch is used

(Continued on page 66)



Success! The current flow at the lights was checked before the wire ties were added and the final connectors were installed.

Operation Lifesaver

(Continued from page 29)

injuries made first aid training more interesting and more effective.

Things did get messy and by the end of a class meeting the room would look like a cross between *MASH* and the *Texas Chain Saw Massacre*.

Final planning for the operation was done at a meeting in early March. Since most of the program participants had never taken part in a disaster drill, did not know each other and would have levels of medical skill ranging from none to paramedic, it was clear that our training and control team would have to work very efficiently.

The drill operation would be controlled by four teams. The Medical Team would conduct the training programs and control the operation of the aid station and the medics in the field. The Simulation Team would make-up the simulated victims, prompt them as to how to act (moan, groan, go into shock, etc.) and place them in situations. The Security Team would create a threat and defense atmosphere and unexpected situations (e.g., a medic is shot by a looter, etc.) to add more realism. Finally the photographic team would try to get all of the action on film for future study.

Medics, Victims—The participants would be divided into two groups at the start of the drill, with one group reporting to the aid station for supplies to become "medics" and the other group reporting to the simulation station to be made up as "victims."

As the drill progressed "medics" would be rotated out to become new "victims" and "victims" would be washed up and sent out as new medics. In this way everyone had a chance to get a number of experiences and the drill became self-perpetuating.

The schedule of the day started with a trauma management slide lecture using over 100 slides that had been produced by the Medical Aid Studies Group during the winter. This program gave participants an opportunity to see all of the simulated injuries they would encounter in the drill and see the proper way to handle them. After the slide presentation there was a hands-on training program on bandaging, splinting and victim transporting. After lunch a short program on basic victim survey and triage was followed by a final briefing for the drill. Participants were divided into medics and victims and instructed to report to the "simulation station" or "medical aid station" wearing old clothes.

A count-down was started as each team went to work setting up for the drill. As zero-hour approached a final check was made. Victims got a final touch up on their

(Continued on page 70)

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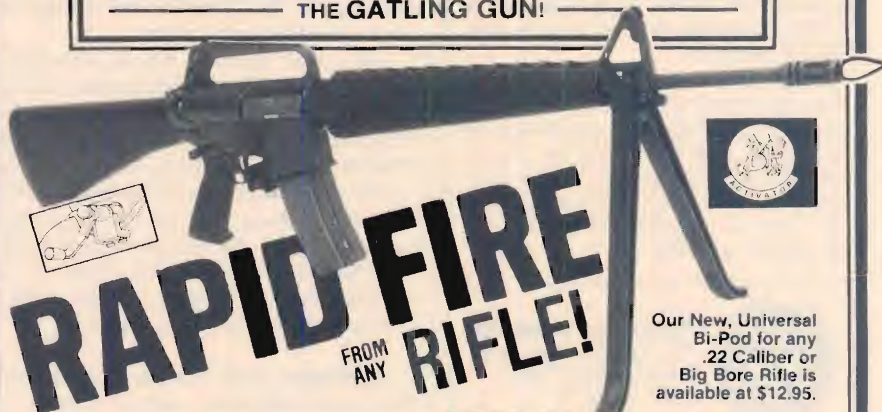
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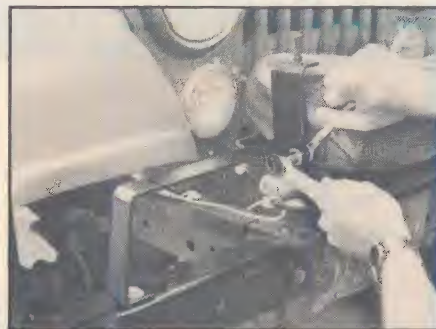
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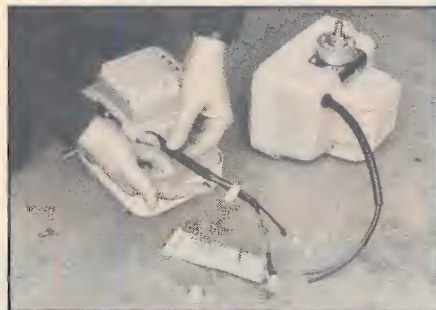
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Heavy Duty Alternator

(Continued from page 64)



Size 3/8-20 bolts secure the 1/4-inch steel light brackets, fabricated by RV & Off-Road, to the bumper and the Hi-Lift Jack mount.



A healthy dab of RTV silicone sealant applied at the joints between the body, corrugated shielding and inner cable help secure the wires and keep out moisture.

for a long period of time, a low-powered alternator can take hours of high-speed running to "pay back" the current the winch used from the battery.

We could operate almost indefinitely with our stock 65-amp alternator, with an occasional winching session thrown in. But the further addition of a pair of Super Off-Roader lights would add an extra 34-amps to the system's current draw when in use, which just about uses up the stock alternator's reserve. The answer was to install a Central 105-amp alternator, which may be overkill, but we prefer a certain level of over-engineering in the outback.

Installation And Wiring—The Central Hi-Power alternator simply bolts-in to most applications using a GM-Delco alternator. Gile suggests using a heavy six-gauge wire from the alternator output post to the battery positive pole. The 10-gauge wire common in OEM-applications just can't carry the current for fast, efficient charging of the battery when it's down after heavy use.

Because the alternator will require more effort to turn over under heavy output, it wouldn't hurt to make sure the drive belt is in good shape.

Mount the lamps in a safe, secure location near the front of the rig. If you want them on the safety bar or a roof-mounted light bar, you may need some sort of shield to prevent the stray light from spilling onto the hood and adversely affecting the

driver's vision.

We chose to use a pair of custom-fabricated brackets to mount the lights. RV & Off-Road twisted the bars from 1/4- x 1 1/4-inch steel. The lower ends of the brackets bolted to the front bumper, and the cross-bars were secured to a vertical Hi-Lift Jack mount adjacent to the winch. This raised the lights away from the bumper, out of harm's direct reach, and placed them where mud and debris tossed up from the tires wouldn't pack up on the rear of the lamp housing.

When wiring such high-draw lamps, it doesn't pay to skimp on the wire size. Using a too-small size results in excessive current loss due to the wire's resistance, so the lamps can't operate at full efficiency.

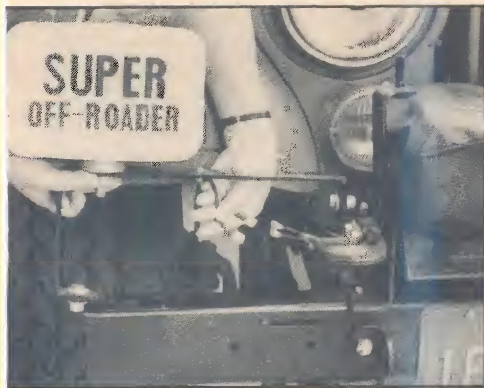
It's a good idea to use a relay in the circuit to route the power to the lights. You wouldn't want a switch in your dash that would be large enough to carry all those amps safely and efficiently! Cepek sells single and double switch kits—we used the single switch version—and a heavy-duty dual relay that's perfectly suited for use with the C-1000s.

Using a relay in the lighting circuit allows for efficient routing of the power. The relay draws relatively little current, so the 14-gauge wire supplied in the Cepek kit is sufficient for its energy needs. The lamps are another story—use 10-gauge wire on both the power and ground sides of the circuit from the battery through the relay and on to the lights.

Take your time when planning the wire routing, and you'll only need to do it once. Think ahead! Follow existing wire bundles, if practical, to take advantage of the anchors and supports already in place. Use a grommet to protect the wire if you need to route it through a hole in the sheet-metal. Nylon wire ties and cable clamps are inexpensive and available at auto parts or electronics stores everywhere. They can be a big help with the job, and make it look professionally done.

When you start running wires, don't just jump in and wire-tie everything in sight. Use masking tape to temporarily secure the wires in place until the job is finished. Then, when you're sure nothing needs to be changed, secure the wires with ties and remove the tape. Take it from the voice of experience, this step will save you a lot of wasted wire ties.

Heat-shrink tubing is the hot ticket for making your crimp-on connectors last a long time. Of course, you're using crimp-on connectors . . . ? Starter kits, with the crimping tool and an assortment of connectors, are inexpensive and worth every cent in terms of how well your job comes out. Heat-shrink tubing, also readily available, helps keep out dirt and corrosion and reduces the chance of the wire breaking at the connector.



Heavy-gauge spade connectors wired between the lights and the main power feed lines allow for quick and easy removal of the lamps and brackets between off-pavement jaunts.

Wire the switch to the relay first, and make sure it operates properly when the switch is thrown; you should hear a distinct "click" from the relay. Next, run the lamp power wires to the relay, and check the current flow with a test light or meter before finishing the connections at the lights. It's easier to isolate and correct problems before all the final connections are made.

We used quick-disconnect spade plugs at each light, rather than wiring them directly. By removing two 3/8-inch bolts and unplugging the connectors, the lights and brackets can be safely stored away, out of thieves' reach, until the next off-pavement outing.

It's with a good deal of satisfaction that, the first time the switch is thrown after completing the project, both lamps illuminate as planned. The name "Super" Off-Roader is well given, because these lights definitely do the job when burning holes in the dark.

As fitted with the high-output alternator, the Jeep is now much better suited to handling the heavier battery and charging loads incurred when using the winch and C-1000 lights.

If your rig is plagued with battery charging or insufficient power problems, perhaps a high-output alternator is just what the doctor ordered. Then you can run all the killer off-road lamps you want, and rest assured you'll have sufficient juice left to make it home and be able to start the rig the next morning to head back to the salt mines. ●

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Dick Cepek Inc.
17000 Kingsview Ave.
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Central Hi-Power Products
1075 Nevada St.
Long Beach, CA 90806
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RV & Off-Road Specialties
3242 Thousand Oaks Blvd.
Thousand Oaks, CA 91362
(805) 496-9336



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P-02A NJ Belt Buckle
Chrome \$9.00



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W-200S Tempered and Sharpened w/Blackened Blade \$95.00
W-222 28" For Display Only \$60.00
W-220 Wood Practice Boken \$9.00
W-43 Sword Stand \$15.00



W-217 Ball Bearing Chain Hide-A-Chuck
12" long \$16.00 24" long \$18.00

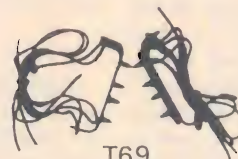


W-224
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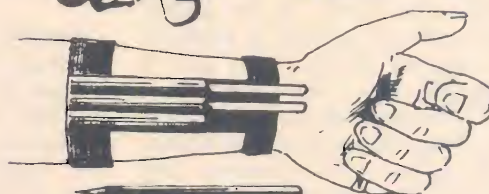
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Forcemen

(Continued from page 53)



This forceman uses a custom Colt AR-15 in training.

ship every day of his life, from shooting at targets, to video games, to carnivals. The knowledge of all firearms, be they domestic or foreign is essential. Hundreds of different types of ammunition are also considered. He must know the fundamentals of gunsmithing, for the care, cleaning and repairing of his arsenal is of vital importance. He knows that he is the only one who will prevent his extinction, so he must be correct with his first shot.

One rather surprising and interesting fact that was found during the course of this writing was that many forcemen interviewed do not use or promote the use of fully automatic weapons. They realize that they do not have the logistical support that an organized military would have, and that they must carry all equipment for all weather conditions and operations. A fully automatic weapon would be detrimental to their supply of ammunition. They believe one well placed round to fell a target is far more acceptable than expending a half a dozen to fulfill the same task. A 37-year-old forceman commented, "I just do not feel right if I don't put in two or three hours a week at the range. I have a wife, three children and a future to think about. Sure there is the police and Army to protect us, but everyone needs help sometimes. I see myself as supplemental and supportive to that protection."

James Johnson, a design engineer for a Chicago firm explained, "We may have to arm ourselves with anything, from a shotgun to a leg of a chair. Guns may be difficult to obtain in some areas of the U.S. But I know that a knife, an axe, a club, and even rocks can be used to destroy a person's fighting ability. The acts of destroying gas, water, and electric lines, burning buildings, blowing up bridges, blocking roads, confiscating needed supplies, disrupting communications and throwing gas bombs are all weapons of the forceman."

There's an eight-man combat survival group operating in northwest Indiana. The group is somewhat covert about their existence, but it has been found that they have made commitments to farmers in their area for security work and crop protection.



ABOVE—Combat under NBC conditions is a distinct possibility.

RIGHT—These weapons belong to four combat survivalists in Illinois.

Said one member, "These farms are very close to major cities to the north. And if something ever comes down, these farmers want, and need to protect their crops. That's why we're here."

This Indiana group was fairly well equipped, including two PRC-10 radios, three canoes, two off-road vehicles and enough food that they felt would last about two months if not supplemented.

Combat Ready—For most of these forcemen the days of having a household shotgun or revolver are gone. Many feel that they are combat ready, be it urban combat or out in the bush. Their weapons may include anything from a UZI to a fully automatic M16. They do try to stay away from any odd size caliber, and foreign weapons with odd calibers, since they believe that if an armed crisis were to erupt in the U.S., the most plentiful and easily obtainable ammunition would be the 5.56mm (.223 Remington) or the 7.62mm (.308 Winchester). One Michigan force-



man suggested that in a life or death situation, the military and police may furnish one with ammunition in exchange for help.

The use of military and civilian pyrotechnics and explosives is indispensable,

including the know-how to manufacture home-made explosives, smoke, flares, gas and improvised munitions. And he must know the proper technical preparation and application for his devices to obtain the highest level of destruction. He aspires to reach that level through research and often dangerous training.

Besides his training and first-hand experience, the forceman has a well stocked library of books on explosives, tracking, patrolling, mountaineering, clandestine operations, combat in built-up areas, and Soviet military power, to name a few. And, of course, his collection of military and survival magazines serve as reference material.

Nuclear, biological and chemical warfare training is a serious enterprise for many forcemen. Some wholeheartedly prepare by procuring proper masks, suits, dosimeters and detection equipment, building blast and fallout shelters, and stockpiling medical supplies needed for this type of warfare, such as ointments, amyl nitrite and atropine.

Said an unemployed steelworker from Pittsburgh, Pennsylvania, "We can not go on like this much longer, something is going to come down one day, and I want to be ready. Don't get me wrong, I'm not looking for a downfall to take advantage of, I just want to survive."

The forceman is an avid practitioner of his skills, from physical to technical preparedness. He believes the best way to acquire and strengthen his skills is through intensive, realistic practice with actual combat survival conditions in mind. He must learn to carry out his skill in response to specific cues which would occur in a survival situation.

Most forcemen set aside a weekend or two each season of the year for training purposes. In that way, they can experience and practice their skills in different climates and terrains. With one thing always kept in mind, that confidence is instilled and skills strengthened when people are under actual combat survival conditions.

Forcemen are not doomsday products resulting from paranoia and fear. Then again, if a person did not have a sense of fear of an impending disaster, he would have no interest or need for survival. In any case, survival is not usually by accident.

The philosophy of survivalism will continue to grow and evolve in every world civilization. It is very evident in the communist nations, as one can see by their massive civil defense programs.

No one knows what, if any, role the survivalist or forceman will play in the future. But should war or some other sudden, disastrous upheaval occur, these individuals stand ready to offer their skills for the protection and preservation of our nation. ●

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Operation Lifesaver

(Continued from page 65)

make-up or a little fresh blood. Medics checked the items in their kits, photographers took up good positions.

Two shots from a starting pistol signaled the start of the drill. Medics ran from the aid station, victims began screaming and moaning, smoke poured from one cabin, security people battled with raiders and the game was on.

Unlike drills conducted by Red Cross and civil defense units, the medic teams participating in this drill were composed of people with varied levels of medical skill who had never worked together before as medical teams. And while the objective was individual skill development rather than team building, it was amazing how the combination of pressure and dedication worked not only to make each team effective but to make the teams seem to work together as a unit.

Of course there were mixups and mistakes were made but there was no panic or chaos that might have been expected. There was constant open (shouting) communication going on. "I need help here." "does anyone have an extra triangle bandage?" "we have two more injured in here," etc.

Children were used as runners for suppliers or to hold bandages in place. The more experienced EMTs and Red Cross instructors moved around to help those with less experience.

Splints and back board were improvised on the spot from items at hand. Even though there was no triage officer of central control, a rough form of triage was conducted and in most cases the decisions made were correct.

Since two-thirds of the simulated victims had immediate life-threatening conditions, the medics had a lot of work to do in the first minutes of the drill: stopping bleeding, restoring airways and treating shock. Eight minutes into the drill the first victim was brought into the aid station with intestinal evisceration, followed a few minutes later by a victim with a sucking chest wound.

As medics brought each victim in, the victim was examined and both victim and medic were questioned about what had been done. In some cases additional care was demonstrated at the aid station, before the victim was sent for clean up. The drill became self-sustaining as medics were made into victims and victims became medics. According to plan, the simulation team began to shift the severe injury situations from the "town" to the roads. Ad hoc units of medics and security team members organized and set off on rescue patrols.

The patrols found dozens of injured laying along the road. Road situations included a man under a live electric line,

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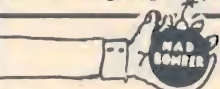
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Operation Lifesaver

and a deranged man with a knife (rubber) assaulting one of the medics who thought he was a victim. Everyone was so totally involved in the action that before anyone knew it the shadows were growing long and the sun was low.

The drill had such an energy of its own that it took some effort to bring things to a halt. The drill area was littered with bloody bandages and other items that had to be cleaned up before dark. After time for a good meal everyone gathered around the campfire for a debriefing. Additional training was conducted at night to practice dealing with medical emergencies in the dark using only flashlights.

Operation Lifesaver was a test of training techniques and an experiment to see what would happen in a national disaster when citizens rushed to the aid of their neighbors. We found that wound simulation was a very effective technique for teaching first aid. The combination of hands-on training followed immediately by realistic drill and then lessons was well learned and long to be remembered. ●

Conclusions

THE drill itself tended to substantiate the four following contentions:

1. In the event of a truly large scale disaster on a regional or national level, where the arrival of organized medical aid units and triage teams would be unlikely, citizens in the affected community that were equipped and educated could carry out effective emergency rescue and medical aid action.

2. While ad hoc medical teams with varied levels of skill and less than optimum equipment might make some errors, their actions could save thousands of lives when they are the only medical aid that will be available for many hours, days, weeks or months.

3. Even when organized medical units can be expected within a few hours, the educated citizen with some basic equipment can save many lives by being on the scene immediately to stabilize life-threatening situations.

4. Under any conditions where there is a general breakdown of social order, medical aid teams would need to be provided with armed security and/or arm themselves in order to carry out their life-saving operations.

Observing this drill with people from eight states ranging in age from 8 to 58, people from farms and factories and laboratories and offices thrust into a situation where people needed their help to stay alive, watching these people working together with such energy and dedication on that April afternoon made me very proud of Live Free and of the real survivalist.

Live Free plans to conduct many such regional seminars and field programs on a wide range of survival related subjects in 1987. For more information write to Live Free, Inc., P.O. Box 1743, Harvey, IL 60426.

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Armscorp M-14

(Continued from page 57)

vince of this article. Some information is given in the pictures accompanying. Suffice it to say, it's much more straightforward than the M-1 and easier to clean, too.

Scope—Most significant: unlike most military rifles, fitting this unit with a scope in a simple process. It is also a standard unit accepting one-inch rings. GI mounts start at about \$50, extra for the rings, and you just screw the mounting bolt in place after aligning the flange rim. I was itching, once I found out how accurately I could shoot the rifle bench supported, to try it with optical sights eliminating the variables of perspective and eyesight. But time was short and I had to have the rifle back. The peep sights provided are surprisingly good, and the National Match hooded aperture sight (interchanges with M-1) sells on the surplus market in the \$20 neighborhood. It's a better shielded, more discriminatory unit, but not as handy for quick scans and rapid pickups.

My one serious criticism of Armscorp's product has little to do with the product. They really should furnish the military manual. And not just for the novice. It is important with military rifles of this generation to know the exact names and locations of parts, and to have that convenient little troubleshooting chart. These rifles generally work best after break-in. The test rifle smoothed out considerably after 750 rounds. But if you just get a bunch of parts or a rifle in a box, you don't necessarily know that.

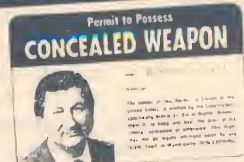
M-14 was replaced by a .22 that has yet to win its first serious engagement. Frankly, I think the .308 cartridge is far superior for combat in most of the world, and for civilian purposes, ideal for medium to large game or recreational target shooting. The M-14 was controversial when adopted. So was M-1 before it, M1903 before that, and I suppose if you go far enough back, the snaphaunch and the blunderbuss were, too. Maybe the spear. But the rifle itself was fine, and is today winning matches all over the country.

The M-14 had the misfortune to reach maturity when the U.S. was bogged down in a messy jungle affair we may never repeat, in which only sheer volume of fire seemed to count. That was never its strong suit. Accuracy is. The rifle cost \$68.75 to produce (government procurement price) in 1965, \$20 less than M-1's cost 20 years earlier. It shot about as well and was easier to strip, clean, and maintain. Even though its materials are more traditional than, say, H&K's or FN FAL's, M-14 is definitely as good a rifle for semiautomatic use. And the Armscorp version of the rifle is a solid copy of the military original. Few people are aware that Smith Enterprises also did the work on the M21 Match/ Sniper variants of the M-14. With this rifle, that tradition continues. ●

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Staff Report



IN an article in our October 1986 issue on the versatile Israeli gas mask and how to convert it into an NBC protective system as good as the military has, we mistakenly cut out an important paragraph.

Due to a misunderstanding, we excised a paragraph in which the author, Duncan Long, stated that the best deal around for these masks is at Sierra Supply, Dept. ASG, P.O. Box 1390, Durango, CO 81302; (303) 259-1822. Sierra is offering the mask and one filter for \$6.95. Extra filters are \$4.95 each.

We thought there was an even better deal available elsewhere. It is a better deal—if you purchase the masks in lots of 10.

After doing a little checking, we found that Sierra does indeed have the best price

on the Israeli masks, which are reported to be effective against all known nuclear, chemical and biological agents.

These masks offered by Sierra are new and in excellent condition as are the filters. The price on them has come down recently, we understand, because the Israelis are issuing a new mask which is about the same as these masks but will have a wider field of vision. Both masks are threaded for standard NATO filters. The Israeli gas masks are made in West Germany.

You can buy two masks and two filters for \$13. There is a \$2.50 per order charge for orders up to \$25. Contact Sierra for ordering or more information, including information about Sierra's other survival and outdoors equipment and supplies. ●

Decontamination:

Finding Food After A Nuclear War

Sooner or later your food will run out. Then what will you do? . . .

By Duncan Long

NO MATTER how much freeze-dried food or grain you may have in your survival stores, if a nuclear war comes to pass, sooner or later your food will run out. Then what will you do for food?

If you're in an area with few survivors, traveling to your local grocery stores **MIGHT** be of help. Food in sealed containers would be safe to eat if you were careful to wipe off any fallout dust on the container before opening it. Radiation doesn't make food dangerous and only slightly alters it so that it loses little of its food value.

But chances are good that any store will be stripped during a pre-war panic. Even if it were full at the time of the attack, time would be against you. Foods have a finite life during which their nutritional content remains high. Once this time is exceeded, the nutritional value of the food gradually drops off. Food will remain eatable for some time but it will not necessarily supply all your nutritional needs.

Nutritional shelf lives of stored foods are short. Most canned food (whether in cans or jars), has a life of only six months (though the food will be eatable for longer). Canned meats and non-citrus fruits last a bit longer; they have some food value for up to a year. Evaporated milk has a nutritional life of six months; bouillon, instant cream, nuts, cereals, and hydrogenated (or antioxidant treated) fats/vegetable oil all have nutritional shelf lives of a year. About the only things worth eating after a year are coffee, tea, cocoa, candy (that isn't nearly 100 percent sugar), or spices like sugar, salt, pepper, etc.

So even IF you have a grocery store to use for supplies, the nutritional value of the food will be nearly nil after a year.

Foraging? Maybe. But if you're in an area where the plants are producing enough food to support you, chances are good that there'll be a large human population as well. If you have to compete with others for wild food sources, chances are there won't be enough to support you. Foraging also takes a lot of energy for the caloric return to carry out; you burn up nearly as much energy as you gain. So don't plan on doing more than supplementing your larder through foraging unless you're living in a very remote area with a lot of food just waiting for you to pick it off the plants.

Hunting? Again, much the same argument can be made against it as with foraging. If the animals survive, a large popula-

tion of humans will probably be competing with you for the food. Hunting could supply supplemental meat for your diet but probably won't be a main source unless you're really out in the wilds.

So most of us who are planning on surviving a nuclear war for more than a few years need to be able to raise our food or have a skill (like dentistry, medical work, etc.) which can be bartered for food.

Is gardening or farming possible in a radioactive fallout contaminated environment? Yes.

Fallout from a nuclear weapon is different from that of commercial radioactive waste. While the waste from a nuclear reactor may last for thousands or even tens of thousands of years, radiation from a nuclear weapon decays very quickly to a safe level. The flip side of this is that fallout is initially more dangerous than radioactive waste since the levels of radiation it gives off are higher. Even in the shadow of a very dirty ground blast, the levels of radiation will sink to safe levels in a relatively short time. This means that you could be gardening in a very contaminated area within a year's time if you had to. Though long-term dangers from such activities may remain to show up in 20 or 30 years in such an area, if the choice is between starving in a few months or **MAYBE** having a radiation-related disease like leukemia or cancer 30 years down the road, it shouldn't be too hard to decide.

Too, fallout is like sand or dust. It isn't a liquid that runs into the earth. With care, even in areas of maximum fallout, the top soil—along with the fallout—could be removed and the land used for gardening. If you had access to heavy earth-moving equipment, even full-scale farming could be carried out after removing several inches of top soil.

If removing the soil is not possible, it's also possible to plow fallout under so that it's below ground. This allows plants to obtain nutrients from the soil while the earth acts as density shielding to lower the radiation to levels that will not harm either the plants or the person growing them. While this isn't as ideal as actually removing the contaminated soil, it is an easier alternative. The produce from such land will not be quite as safe to eat from a long-term health point of view but, again, it beats starving.

UV Radiation—More dangerous to plants than radiation will be the ultraviolet

radiation created by damage to the ozone by nuclear weapons. This damage, like fallout, is fairly short-lived, however. The ozone layer will renew itself so that, by a year after the worst of a nuclear war is over, a less harsh environment for growing plants will again be available. Since it now appears that the problems of a nuclear winter have been exaggerated and, even if they should occur, will be over after the first year as well, things would be fairly decent for gardening within a year's time. Fallout, ozone damage, and nuclear winter are three good reasons to have stores of food to get through that first year.

If it were necessary to grow plants in the open during the first year, some plants would be more resistant than others to ultraviolet radiation. The best are wheat, soybeans, rye, barley, alfalfa, and corn (all of which are excellent sources of nutrients). Though high levels of ultraviolet light may stunt these plants' growth somewhat, they'd still produce food.

Best bet would be a greenhouse created with sheets of plastic or the like. The plastic would cut down on ultraviolet light and the enclosed area would help you to control pests and maintain a warm temperature if that should be a problem. Provided you've had the foresight to purchase non-hybrid seeds, you could produce crops for your family for years to come in such an environment (Hybrid seed would be great the first year, but the seeds you get from the hybrid plants may not grow to create a second crop).

Some good sources of seeds are: Cross Seed Company, RR #1, Bunker Hill, KS 67626; M&M Enterprises, Box 64, Island Lake, IL 69942; Seeds of Survival, 228 W. North St., Whitewater, WI 53190; and Vegetable Seed, Box 192, Madison, GA 30650. Check the stores in your area as well since they'll have a selection of seeds tailored to grow well in your area (again, avoid hybrids).

Despite tales of scientists growing wheat from seeds encased with Egyptian mummies, seeds have a finite shelf life in the real world. Each additional year that seed is stored, a higher percentage of it loses its ability to germinate. Therefore, seed should be replaced every year if at all possible. Actually, this is good news; it forces you to practice planting and growing the seeds you've been storing.

If you grow plants in a contaminated environment or forage for plants to eat in areas of fallout, you can process them so



Whether the food is fresh produce or in cans, knowledge of how to decontaminate it would permit nuclear war survivors to eat it safely.



If available, canned food exposed to radioactive fallout would be safe to eat provided the containers were carefully wiped clean of dust before opening.

that they are safe. Again, remember that fallout is like dust, not a liquid that can penetrate material. If you carefully peel and clean the plants, most of the fallout will be removed with the outer layers of plant material so that you can eat them without fear of ingesting radioactive materials. Fruits or vegetables with smooth skins (like tomatoes or green peppers) can be cleaned by washing (though peeling is probably safer). Plants whose eatable parts come from the ground can be more thoroughly cleansed if you first remove the

top layer of soil around their base (which may have some fallout dust in it) before digging up the plant. Eatable tubers and roots should be very thoroughly washed.

A vegetarian diet with everything your body needs to stay healthy is not too easy to maintain in the best of times. In a post-nuclear war environment, it would be nearly impossible. Meat could be all but essential for survival. Ideally, you'll have a diet mix of somewhere around 15 percent protein, 52 percent carbohydrates, and 33 percent fat.

How do you get the meat processed (whether you're hunting, discover "wild" domestic animals, or are raising farm animals) so that it is safe to eat?

First, you need to study the way the animal is behaving. Does it look healthy or sick?

If animals have ingested fallout (on grass or other food sources) but have NOT become sick from radiation exposure, they're safe to eat if you follow a few precautions. Such animals will also probably remain healthy enough to live as long as non-exposed animals so that they can be used for breeding stock; don't kill what you don't need.

When radioactive contamination is ingested by animals, it is stored in certain locations in their bodies. The habit for post-nuclear war survivors to learn is that of avoiding eating parts of the animal that will be collecting the radioactive materials. If you avoid the parts with high concentrations of contamination, you will be able to remain healthy while still being able to take advantage of the available meat.

Parts to avoid: thyroid glands, kidneys, liver, and meat next to the bones as well as the marrow in the bones. Avoid eating these and eat only muscle meat, you'll be in good shape. Another important precaution is to thoroughly cook the meat so that ALL bacteria are killed in the meat; since radiation lowers resistance to disease, the animal may have higher than normal concentrations of bacteria in it and you will be less able to fight such bacteria off. **AVOID EATING RED MEAT**; always cook it thoroughly.

Remember that the waste parts of the carcass and parts you shouldn't eat are probably contaminated. Bury the parts in an area where they can not contaminate your water or crops.

If an animal is sick, don't kill it. Though the meat may not be contaminated with radiation, the animal is sick because of some sort of disease-causing virus or bacteria (radiation causes a lowered resistance to disease, remember). Meat from these animals can cause food poisoning since cooking the meat will only kill bacteria or viruses in the meat but won't rid it of the toxins the micro-organisms have produced. The meat will be poisoned and no amount of cooking will rid it of the poison.

You may be able to nurse the animal back to health, too. If so, you could eat it later or use it for breeding stock. If the animal dies, dispose of the carcass carefully since it will be contaminated and dangerous to your health.

If the sick animal is in a herd or flock, immediately separate it from the others so that the disease can't spread (lowered resistance again). Keep a herd's area extra clean so that diseases can't get started, too.

Food will be hard to come by following a nuclear war. But radioactive fallout doesn't penetrate or contaminate as much as many people think. ●

Brigade Quartermasters:

ASAT Camouflage

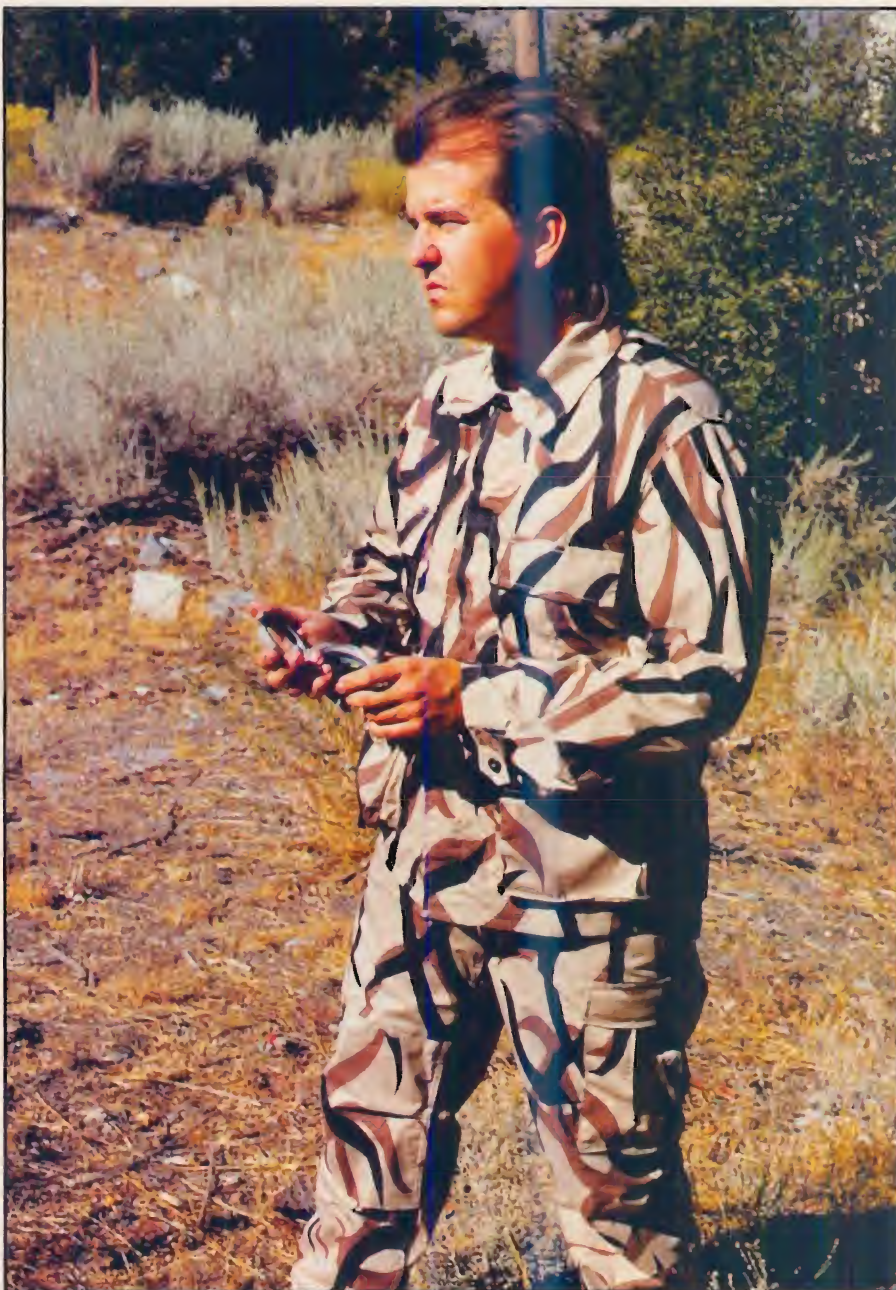
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Staff Report

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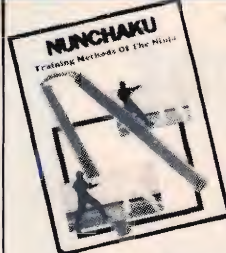
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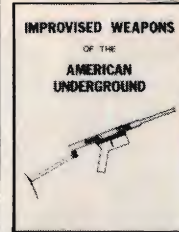
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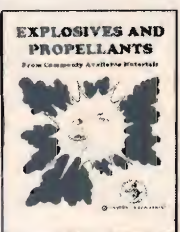
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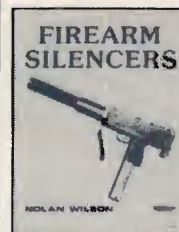
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